INTEGRATED CIRCUITS CATALOGUE 1989

Philips Components

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INTEGRATED CIRCUITS CATALOGUE 1989

The preferred type range
Although Philips Components manufactures over 100 000 different products, only about a third of them regularly appears on the majority of customer orders.
This part of our total range is named the preferred type range.

A catalogue containing a guide to type numbers, catalogue numbers, selection and brief technical data for the preferred type range is published under the title 'Preferred type range catalogue 1989'.

Integrated circuits
To provide a compact, handy reference work, the Integrated Circuits section of the 'Preferred type range catalogue 1989' is presented here as a separate publication. (The Discrete semiconductors section of this catalogue is also published separately under the title 'Discrete semiconductors catalogue 1989'.)

The Philips Data Handbook System
For complete specifications of the components listed in this catalogue, please refer to the relevant volumes of the Philips Data Handbook System, which are indicated in the heading of each data page of this catalogue.

The Philips Data Handbook System comprises over sixty volumes, divided into six series as follows:

Integrated circuits
Discrete semiconductors
Display components
Passive components
Professional components
Materials

The contents of these series are listed in the section entitled Data Handbook System at the end of this catalogue.

If you cannot find the information you need in this catalogue or the appropriate data handbook, please consult your nearest Philips Components sales organization or industrial distributor (for addresses, see the back cover of this catalogue).

Please note that all dimensions given in tables and drawings are in mm, unless stated otherwise.

Integrated circuits

In the alphanumeric index (which appears in the second part of this section) reference is made to those IC data sheets or Data Handbooks in which comprehensive information is included.
These Handbooks are part of The Philips Data Handbook System which is a comprehensive source of information on electronic components, subassemblies and materials.
For this catalogue section the following Integrated Circuit Handbooks are of interest.

code	handbook title
IC01	Radio, audio and associated systems Bipolar, MOS
IC02a/b	Video and associated systems Bipolar, MOS
IC03	ICs for Telecom Bipolar, MOS Subscriber sets, Cordless telephones
IC04	HE4000B logic family CMOS
IC05	HE4000B logic family – uncased ICs CMOS
IC06	High–speed CMOS; PC74HC/HCT/HCU Logic family
IC07	not yet issued
IC08	ECL 10K and 100K logic families
IC09N	TTL logic series
IC10	Memories MOS, TTL, ECL
IC11	Linear products
Supplement to IC11	Linear products
IC12	I^2C–bus compatible ICs
IC13	Semi–custom Programmable Logic Devices (PLD)
IC14	Microcontrollers and peripherals Bipolar, MOS
IC15	FAST TTL logic series
IC16	CMOS integrated circuits for clocks and watches
IC17	ICs for Telecom Bipolar, MOS Radio pagers, Mobile telephones, ISDN
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CMOS HE4000B FAMILY SPECIFICATIONS

CMOS HE4000B FAMILY SPECIFICATIONS

The LOCMOS HE4000B range is a fully buffered digital integrated circuit family which meets the Jedec–B specification. The members of this family are plug–in replacements for the well–known CMOS 4000 and 14500 ranges.

The HE family has the same advantages as conventional CMOS circuits, plus the additional LOCMOS advantages.

Advantages of CMOS

- low power dissipation – typically 10 nW per gate (static)
- wide operating supply voltage range
- wide operating temperature ranges:
  −40 to +85 °C for standard temperature range (HEF)
  −55 to +125 °C for extended temperature range (HEC)
- high DC fan–out
- inputs and outputs are protected against electrostatic voltages

In addition to these, the **LOCMOS HE4000B** range has:

- buffered outputs on **all** circuits
- higher speed
- higher packing density – essential for MSI/LSI
- excellent noise immunity

Recommended supply voltage range 3 to 15 V.

LOCMOS means Local Oxidation Complementary MOS

Inputs and outputs are protected against electrostatic effects in a wide variety of device–handling situations. However, to be totally safe, handling precautions should be taken into account.

Type number designation

Type numbers have a suffix which signifies the type of package and burn–in option.

HE*4000**** complete type number which can be split up as follows:

HE* 4000 ** * *

B	= burn–in
P	= plastic DIL
T	= plastic mini–pack (SO)
D	= ceramic (cerdip) DIL
U	= uncased chip
B	= buffered
UB	= unbuffered
V	= limited operating voltage
F	= T_{amb}: −40 to +85 °C
C	= T_{amb}: −55 to +125 °C

CMOS HE4000B FAMILY SPECIFICATIONS (cont.)

The HE family is designed with standardized output drive characteristics which, combined with relative intensitivity to output capacitance loading, simplify system design.

Family ratings

Limiting values in accordance with the Absolute Maximum System (IEC 134)

Supply voltage range	V_{DD} −0,5 to +18 V
Voltage on any input	V_I −0,5 to (V_{DD} +0,5) V
DC current into any input or output	±I max. 10 mA
Power dissipation per package:	
HEF (plastic and ceramic DIL)	
T_{amb} = −40 to +70 °C	P_{tot} max. 500 mW
T_{amb} = +70 to +85 °C	derate linearly by 8 mW/K
HEF (plastic SO mini-pack)	
T_{amb} = −40 to +70 °C	P_{tot} max. 400 mW
T_{amb} = +70 to +85 °C	derate linearly by 6 mW/K
HEC (ceramic DIL)	
T_{amb} = −55 to +70 °C	P_{tot} max. 500 mW
T_{amb} = +70 to +125 °C	derate linearly by 8 mW/K
Power dissipation per output	P max. 100 mW
Operating ambient temperature range	T_{amb} −40 to +85 °C
Storage temperature range	T_{stg} −65 to +150 °C
Operating ambient temperature range	
HEF	T_{amb} −55 to +85 °C
HEC	T_{amb} −55 to +125 °C

DC family characteristics for HEF at V_{SS} = 0 V

		T_{amb} = −40 °C		T_{amb} = +25 °C		T_{amb} = +85 °C		V_{DD}	
parameter	symbol	min.	max.	min.	max.	min.	max.	V	conditions
Quiescent device current for gates	I_{DD} (µA)	–	1.0	–	1.0	–	7.5	5	all valid input combinations; V_I = V_{SS} or V_{DD}; I_O = 0
		–	2.0	–	2.0	–	15.0	10	
		–	4.0	–	4.0	–	30.0	15	
Quiescent device current for buffers and flip-flops	I_{DD} (µA)	–	4.0	–	4.0	–	30	5	all valid input combinations; V_I = V_{SS} or V_{DD}; I_O = 0
		–	8.0	–	8.0	–	60	10	
		–	16.0	–	16.0	–	120	15	
Quiescent device current for MSI	I_{DD} (µA)	–	20	–	20	–	150	5	all valid input combinations; V_I = V_{SS} or V_{DD}; I_O = 0
		–	40	–	40	–	300	10	
		–	80	–	80	–	600	15	

DC family characteristicsfor HEF at V_{SS} = 0 (cont.)

parameter	symbol	T_{amb} = −40 °C min.	T_{amb} = −40 °C max.	T_{amb} = +25 °C min.	T_{amb} = +25 °C max.	T_{amb} = +85 °C min.	T_{amb} = +85 °C max.	V_{DD} V	conditions
Quiescent device current for LSI	I_{DD} (μA)	–	50	–	50	–	375	5	all valid input combinations; $V_I = V_{SS}$ or V_{DD}; $I_O = 0$
		–	100	–	100	–	750	10	
		–	200	–	200	–	1500	15	
Output voltage LOW $\lvert i_O \rvert < 1$ μA	V_{OL} (V)	–	0.05	–	0.05	–	0.05	5	$V_I = V_{SS}$ or V_{DD}
		–	0.05	–	0.05	–	0.05	10	$V_I = V_{SS}$ or V_{DD}
		–	0.05	–	0.05	–	0.05	15	$V_I = V_{SS}$ or V_{DD}
Output voltage HIGH $\lvert I_O \rvert < 1$ μA	V_{OH} (V)	4.95	–	4.95	–	4.95	–	5	$V_I = V_{SS}$ or V_{DD}
		9.95	–	9.95	–	9.95	–	10	$V_I = V_{SS}$ or V_{DD}
		14.95	–	14.95	–	14.95	–	15	$V_I = V_{SS}$ or V_{DD}
Input voltage LOW $\lvert I_O \rvert < 1$ μA (buffered stages only)	V_{IL} (V)	–	1.5	–	1.5	–	1.5	5	V_O = 0.5 or 4.5 V
		–	3.0	–	3.0	–	3.0	10	V_O = 1.0 or 9.0 V
		–	4.0	–	4.0	–	4.0	15	V_O = 1.5 or 13.5 V
Input voltage HIGH $\lvert I_O \rvert < 1$ μA (buffered stages only)	V_{IH} (V)	3.5	–	3.5	–	3.5	–	5	V_O = 0.5 or 4.5 V
		7.0	–	7.0	–	7.0	–	10	V_O = 1.0 or 9.0 V
		11.0	–	11.0	–	11.0	–	15	V_O = 1.5 or 13.5 V
Input voltage LOW $\lvert I_O \rvert < 1$ μA (unbuffered stages only)	V_{IL} (V)	–	1.0	–	1.0	–	1.0	5	V_O = 0.5 or 4.5 V
		–	2.0	–	2.0	–	2.0	10	V_O = 1.0 or 9.0 V
		–	2.5	–	2.5	–	2.5	15	V_O = 1.5 or 13.5 V
Input voltage HIGH $\lvert I_O \rvert < 1$ μA (unbuffered stages only)	V_{IH} (V)	4.0	–	4.0	–	4.0	–	5	V_O = 0.5 or 4.5 V
		8.0	–	8.0	–	8.0	–	10	V_O = 1.0 or 9.0 V
		12.5	–	12.5	–	12.5	–	15	V_O = 1.5 or 13.5 V
Output (sink) current LOW	I_{OL} (mA)	0.52	–	0.44	–	0.36	–	5	V_O=0.4; V_I=0/5 V
		1.3	–	1.1	–	0.9	–	10	V_O=0.5; V_I=0/10 V
		3.6	–	3.0	–	2.4	–	15	V_O=1.5; V_I=0/15 V
Output (source) current HIGH	$-I_{OH}$ (mA)	0.52	–	0.44	–	0.36	–	5	V_O=4.6; V_I=0/5 V
		1.3	–	1.1	–	0.9	–	10	V_O=9.5; V_I=0/10 V
		3.6	–	3.0	–	2.4	–	15	V_O=13.5; V_I=0/15 V
Output (source) current (HIGH)	$-I_{OH}$ (mA)	1.7	–	1.4	–	1.1	–	5	V_O=2.5; V_I=0/5 V
Input leakage current	$\pm I_{IN}$(μA)	–	0.3	–	0.3	–	1.0	15	V_I = 0 or 15 V
3-state output leakage current HIGH	I_{OZH} (μA)	–	1.6	–	1.6	–	12.0	15	output returned to V_{DD}
3-state output leakage current LOW	$-I_{OZL}$ (μA)	–	1.6	–	1.6	–	12.0	15	output returned to V_{SS}
Input capacitance per unit load	C_I (pF)	–	–	–	7.5	–	–	–	digital inputs

IC

DC family characteristics for HEC at V_{SS} = 0 V

parameter	symbol	T_{amb} = −55 °C min.	T_{amb} = −55 °C max.	T_{amb} = +25 °C min.	T_{amb} = +25 °C max.	T_{amb} = +125 °C min.	T_{amb} = +125 °C max.	V_{DD} V	conditions
Quiescent device current for gates	I_{DD} (µA)	–	0.25	–	0.25	–	7.5	5	all valid input combinations; $V_I = V_{SS}$ or V_{DD}; $I_O = 0$
		–	0.5	–	0.5	–	15.0	10	
		–	1.0	–	1.0	–	30.0	15	
Quiescent device current for buffers and flip-flops	I_{DD} (µA)	–	1.0	–	1.0	–	30	5	all valid input combinations; $V_I = V_{SS}$ or V_{DD}; $I_O = 0$
		–	2.0	–	2.0	–	60	10	
		–	4.0	–	4.0	–	120	15	
Quiescent device current for MSI	I_{DD} (µA)	–	5.0	–	5.0	–	150	5	all valid input combinations; $V_I = V_{SS}$ or V_{DD}; $I_O = 0$
		–	10.0	–	10.0	–	300	10	
		–	20.0	–	20.0	–	600	15	
Quiescent device current for LSI	I_{DD} (µA)	–	15	–	15	–	375	5	all valid input combinations; $V_I = V_{SS}$ or V_{DD}; $I_O = 0$
		–	25	–	25	–	750	10	
		–	50	–	50	–	1500	15	
Output voltage LOW $\lvert I_O \rvert$ < 1 µA	V_{OL} (V)	–	0.05	–	0.05	–	0.05	5	$V_I = V_{SS}$ or V_{DD}
		–	0.05	–	0.05	–	0.05	10	$V_I = V_{SS}$ or V_{DD}
		–	0.05	–	0.05	–	0.05	15	$V_I = V_{SS}$ or V_{DD}
Output voltage HIGH $\lvert I_O \rvert$ < 1 µA	V_{OH} (V)	4.95	–	4.95	–	4.95	–	5	$V_I = V_{SS}$ or V_{DD}
		9.95	–	9.95	–	9.95	–	10	$V_I = V_{SS}$ or V_{DD}
		14.95	–	14.95	–	14.95	–	15	$V_I = V_{SS}$ or V_{DD}
Input voltage LOW $\lvert I_O \rvert$ < 1 µA (buffered stages only)	V_{IL} (V)	–	1.5	–	1.5	–	1.5	5	V_O = 0.5 or 4.5 V
		–	3.0	–	3.0	–	3.0	10	V_O = 1.0 or 9.0 V
		–	4.0	–	4.0	–	4.0	15	V_O = 1.5 or 13.5 V
Input voltage HIGH $\lvert I_O \rvert$ < 1 µA (buffered stages only)	V_{IH} (V)	3.5	–	3.5	–	3.5	–	5	V_O = 0.5 or 4.5 V
		7.0	–	7.0	–	7.0	–	10	V_O = 1.0 or 9.0 V
		11.0	–	11.0	–	11.0	–	15	V_O = 1.5 or 13.5 V

IC

DC family characteristicsfor HEC at V_{SS} = 0 (cont.)

parameter	symbol	T_{amb} = −55 °C min.	T_{amb} = −55 °C max.	T_{amb} = +25 °C min.	T_{amb} = +25 °C max.	T_{amb} = +125 °C min.	T_{amb} = +125 °C max.	V_{DD} V	conditions
Input voltage LOW $\|I_O\| < 1$ µA (unbuffered stages only)	V_{IL} (V)	– – –	1.0 2.0 2.5	– – –	1.0 2.0 2.5	– – –	1.0 2.0 2.5	5 10 15	V_O = 0.5 or 4.5 V V_O = 1.0 or 9.0 V V_O = 1.5 or 13.5 V
Input voltage HIGH $\|I_O\| < 1$ µA (unbuffered stages only)	V_{IH} (V)	4.0 8.0 12.5	– – –	4.0 8.0 12.5	– – –	4.0 8.0 12.5	– – –	5 10 15	V_O = 0.5 or 4.5 V V_O = 1.0 or 9.0 V V_O = 1.5 or 13.5 V
Output (sink) current LOW	I_{OL} (mA)	0.64 1.6 4.2	– – –	0.5 1.3 3.4	– – –	0.36 0.9 2.4	– – –	5 10 15	V_O = 0.4; V_I = 0/5 V V_O = 0.5; V_I = 0/10 V V_O = 1.5; V_I = 0/15 V
Output (source) current HIGH	$-I_{OH}$ (mA)	0.64 1.6 4.2	– – –	0.5 1.3 3.4	– – –	0.36 0.9 2.4	– – –	5 10 15	V_O = 4.6; V_I = 0/5 V V_O = 9.5; V_I = 0/10 V V_O = 13.5; V_I = 0/15 V
Output (source) current (HIGH)	$-I_{OH}$ (mA)	1.7	–	1.4	–	1.1	–	5	V_O = 2.5; V_I = 0/5 V
Input leakage current	$\pm I_{IN}$(µA)	–	0.3	–	0.3	–	1.0	15	V_I = 0 or 15 V
3-state output leakage current HIGH	I_{OZH} (µA)	–	1.6	–	1.6	–	12.0	15	output returned to V_{DD}
3-state output leakage current LOW	$-I_{OZL}$ (µA)	–	1.6	–	1.6	–	12.0	15	output returned to V_{SS}
Input capacitance per unit load	C_I (pF)	–	–	–	7.5	–	–	–	digital inputs

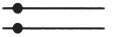
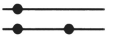
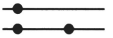
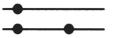
CMOS HE4000B FAMILY SURVEY

Type numbers have a suffix which signifies the type of package and burn–in option:
P = plastic DIL; D = ceramic (cerdip) DIL; T = plastic SO mini–pack;
U = uncased chip; 2nd B = burn–in

HE4000B FAMILY		HEF	HEC
ARITHMETIC ICs			
4008B	4–bit binary full adder	●	
4531B	13–input parity checker/generator	●	
BUFFERS			
4007UB	dual complementary pair and inverter	●	●
4041B	quadruple true/complement buffer	●	
4049B	hex inverting buffers	●	●
4050B	hex non–inverting buffers	●	●
4502B	strobed hex inverter/buffer	●	
40097B	3–state hex non–inverting buffer	●	●
40098B	3–state hex inverting buffer	●	●
40240B	octuple buffers with 3–state outputs	●	
40244B	octuple buffers with 3–state outputs	●	
BUS ICs			
40245B	octuple bus transceiver with 3–state outputs	●	
COMPARATORS			
4585B	4–bit magnitude comparator	●	●
COUNTERS			
4017B	5–stage Johnson counter	●	●
4018B	presettable divide–by–n counter	●	
4020B	14–stage binary counter	●	●
4022B	4–stage divide–by–8 Johnson counter	●	
4024B	7–stage binary counter	●	●
4029B	synchronous up/down counter, binary/decade counter	●	
4040B	12–stage binary counter	●	●
4059B	programmable divide–by–n counter	●	
4060B	14–stage ripple–carry binary counter/divider and oscillator	●	
4510B	BCD up/down counter	●	●
4516B	binary up/down counter	●	
4518B	dual BCD counter	●	
4520B	dual binary counter	●	●
4521B	24–stage frequency divider	●	
4522B	programmable 4–bit BCD down counter	●	
4526B	programmable 4–bit binary down counter	●	
4534B	real time 5–decade counter	●	
4737B	quadruple static decade counter	●	
4737V	quadruple static decade counter	●	
4751V	universal divider	●	●
40160B	4–bit synchronous decade counter; asynchronous reset	●	
40161B	4–bit synchronous binary counter; asynchronous reset	●	

HE4000B FAMILY		HEF	HEC
COUNTERS (cont.)			
40162B	4–bit synchronous decade counter; synch. reset		
40163B	4–bit synchronous binary counter; synch. reset		
40192B	4–bit up/down decade counter	●	
40193B	4–bit up/down binary counter	●	
DECODERS			
4028B	1–of–10 decoder	●	
4511B	BCD to 7–segment latch/decoder/driver	●	●
4514B	1–of–16 decoder/demultiplexer with input latches	●	
4515B	1–of–16 decoder/demultiplexer with input latches	●	
4543B	BCD to 7–segment latch/decoder/driver	●	
4555B	dual 1–of–4 decoder/demultiplexer	●	
4556B	dual 1–of–4 decoder/demultiplexer	●	●
DEMULTIPLEXERS			
4051B	8–channel analogue multiplexer/demultiplexer	●	●
4052B	dual 4–channel analogue multiplexer/demultiplexer	●	
4053B	triple 2–channel analogue multiplexer/demultiplexer	●	
4067B	16–channel analogue multiplexer/demultiplexer	●	
4514B	1–of–16 decoder/demultiplexer with input latches	●	
4515B	1–of–16 decoder/demultiplexer with input latches	●	
4555B	dual 1–of–4 decoder/demultiplexer	●	
4556B	dual 1–of–4 decoder/demultiplexer	●	●
DRIVERS			
4511B	BCD to 7–segment latch/decoder/driver	●	●
4543B	BCD to 7–segment latch/decoder/driver	●	
ENCODERS			
4532B	8–input priority encoder	●	
FLIP–FLOPS			
D–type			
4013B	dual D–type flip–flop	●	●
40174B	hex D–type flip–flop	●	●
40175B	quadruple D–type flip–flop	●	●
40374B	octuple D–type flip–flop with 3–state outputs	●	
JK			
4027B	dual JK flip–flop	●	●
GATES			
AND			
4073B	triple 3–input AND gate	●	●
4081B	quadruple 2–input AND gate	●	●

IC

HE4000B FAMILY		HEF HEC
GATES (cont.)		
AND (cont.)		
4082B	dual 4–input AND gate	
4085B	dual 2–wide 2–input AND–OR–invert gate	
4086B	4–wide 2–input AND–OR–invert gate	
Complex		
4030B	quadruple EXCLUSIVE–OR gate	
4070B	quadruple EXCLUSIVE–OR gate	
4077B	quadruple EXCLUSIVE–NOR gate	
4085B	dual 2–wide 2–input AND–OR–invert gate	
4086B	4–wide 2–input AND–OR–invert gate	
EXCLUSIVE–OR		
4030B	quadruple EXCLUSIVE–OR gate	
4070B	quadruple EXCLUSIVE–OR gate	
EXCLUSIVE–NOR		
4077B	quadruple EXCLUSIVE–NOR gate	
Inverter		
4085B	dual 2–wide 2–input AND–OR–invert gate	
4086B	4–wide 2–input AND–OR–invert gate	
NAND		
4011B	quadruple 2–input NAND gate	
4011UB	quadruple 2–input NAND gate; unbuffered	
4012B	dual 4–input NAND gate	
4023B	triple 3–input NAND gate	
4068B	8–input NAND gate	
NOR		
4000B	dual 3–input NOR gate and inverter	
4001B	quadruple 2–input NOR gate	
4001UB	quadruple 2–input NOR gate; unbuffered	
4002B	dual 4–input NOR gate	
4025B	triple 3–input NOR gate	
4078B	8–input NOR gate	
OR		
4071B	quadruple 2–input OR gate	
4072B	dual 4–input OR gate	
4075B	triple 3–input OR gate	
4085B	dual 2–wide 2–input AND–OR–invert gate	
4086B	4–wide 2–input AND–OR–invert gate	

HE4000B FAMILY		HEF	HEC
INVERTERS			
4007UB	dual complementary pair and inverter	●	●
4069UB	hex inverter	●	●
4502B	strobed hex inverter/buffer	●	
LATCHES			
4042B	quadruple D–latch	●	●
4043B	quadruple R/S latch with 3–state outputs	●	
4044B	quadruple R/S latch with 3–state outputs	●	
4508B	dual 4–bit latch	●	
4511B	BCD to 7–segment latch/decoder/driver	●	
4543B	BCD to 7–segment latch/decoder/driver	●	
4724B	8–bit addressable latch	●	
40373B	octuple transparent latch with 3–state output	●	
MEMORIES			
4505B	64–bit, 1–bit per word static read/write RAM	●	●
4720B	256–bit, 1–bit per word RAM	●	
4720V	256–bit, 1–bit per word RAM	●	
MULTIPLEXERS			
4019B	quadruple 2–input multiplexer	●	●
4051B	8–channel analogue multiplexer/demultiplexer	●	●
4052B	dual 4–channel analogue multiplexer/demultiplexer	●	
4053B	triple 2–channel analogue multiplexer/demultiplexer	●	
4067B	16–channel analogue multiplexer/demultiplexer	●	
4512B	8–input multiplexer with 3–state output	●	●
4519B	quadruple 2–input multiplexer	●	●
4539B	dual 4–input multiplexer	●	●
MULTIVIBRATORS			
Astable			
4047B	monostable/astable multivibrator	●	●
Monostable			
4047B	monostable/astable multivibrator	●	●
4528B	dual monostable multivibrator	●	●
4538B	dual precision monostable multivibrator	●	

IC

HE4000B FAMILY		HEF	HEC
REGISTERS			
4006B	18–stage static shift register	●	
4014B	8–bit static shift register	●	●
4015B	dual 4–bit static shift register	●	●
4021B	8–bit static shift register	●	
4031B	64–stage static shift register	●	
4035B	4–bit universal shift register	●	●
4076B	quadruple D–type register with 3–state outputs	●	
4094B	8–stage shift–and–store bus register	●	●
4517B	dual 64–bit static shift register	●	
4557B	1–to–64 bit variable length shift register	●	●
4731B	quadruple 64–bit static shift register	●	
4731V	quadruple 64–bit static shift register	●	
40194B	4–bit bidirectional universal shift register	●	●
40195B	4–bit universal shift register	●	●
SCHMITT TRIGGERS			
4093B	quadruple 2–input NAND Schmitt trigger	●	●
40106B	hex inverting Schmitt trigger	●	
SPECIAL FUNCTIONS			
4046B	phase–locked loop	●	
4104B	quadruple low–to–high voltage translator with 3–state outputs	●	
4527B	BCD rate multiplier	●	
4738V	IEC/IEEE bus interface	●	
4750V	frequency synthesizer	●	●
4752V	AC motor control circuit	●	
4754V	18–element bar graph LCD driver	●	
4755V	transceiver for serial data communication	●	
SWITCHES			
4016B	quadruple bilateral switches	●	●
4066B	quadruple bilateral switches	●	●
TIMING CIRCUITS			
4541B	programmable timer	●	●
4753B	universal timer module	●	
4753V	universal timer module	●	

HCMOS PC74 FAMILY SPECIFICATIONS

General

These specifications cover the electrical ratings and characteristics that are common to the entire HCMOS PC74 family, unless otherwise specified in the data sheet of an individual device.

Introduction

The HCMOS family of logic ICs is manufactured using a self–aligning 3 µm polycrystalline silicon–gate CMOS process combined with local oxidation of silicon (LOCOS). HCMOS ICs have the low power consumption, high immunity to input noise and wide operating temperature range of earlier silicon–gate CMOS circuits together with the high–speed and drive capability of bipolar, low–power Schottky TTL (LSTTL). They are also immune to latch–up and all types are available in DIL packages and in space–saving SO packages.

Many HCMOS circuits are pin–compatible with existing 54/74 LSTTL and HE4000B CMOS logic ICs. HCT types are ideal replacements for LSTTL. HCT types can also interface between TTL and CMOS ICs.

Three types of HCMOS ICs are available:

74HC CMOS input switching levels 30%V_{CC} and 70%V_{CC} (typical switching threshold 50%V_{CC}), supply voltage 2 V to 6 V

74HCT TTL input switching levels 0,8 V and 2 V (typical switching threshold 28%V_{CC}), supply voltage 5 V ± 10%

74HCU CMOS input switching levels 20%V_{CC} and 80%V_{CC} (typical switching threshold 50%V_{CC}), supply voltage 2 V to 6 V; unbuffered to allow operation in the linear mode

The HCMOS family also includes several complex circuits for switching or multiplexing analog signals. These circuits have low crosstalk and feedthrough, and a very large frequency bandwidth. There are also two FIFOs and two PLLs in the HCMOS range, of which one (HC/HCT297) is a fully digital type.

Handling MOS devices

Inputs and outputs are protected against electrostatic effects in a wide variety of device–handling situations. However, to be totally safe, it is desirable to take handling precautions into account.

HCMOS features

- Very low power dissipation
- The switching levels of 74HC types are 30% and 70% of V_{CC}
- DC noise margin of 74HC types three times that of TTL ICs
- Logic output levels 0,1 V and V_{CC} – 0,1 V
- All types, except 74HCU are fully buffered
- Typical gate propogation delay of 8 ns
- Can operate up to 60 MHz (typical)
- Fanout capability of 10 LSTTL loads (4 mA); this is increased to 15 LSTTL loads (6 mA) for types with bus–driver outputs
- Wide supply voltage range
- Latch–up free
- Inputs protected against electrostatic discharge
- Functions and pinning identical to most popular LSTTL and CMOS HE4000B families
- Analog switching types operating up to 10 V
- Symmetrical output sourcing and sinking currents and equal output rise and fall times
- All types available in plastic SO packages for surface mounting and plastic DIL packages
- Choice of operating temperature range: –40 to +85 °C or –40 to +125 °C
- Approved to JEDEC standard No. 7A
- Alternate source is RCA

Type number designation

Basic family:

PC74*** ***** * complete type number; standard and extended temperature ranges

PC74*** ***** *

package code:
P = plastic DIL;
T = plastic mini-pack (SO)

device number (up to 5 digits)

HC = CMOS input switching levels;
supply voltage range 2 to 6 V;
fully buffered

HCT = TTL input switching levels;
supply voltage range 5 V ± 10%;
fully buffered

HCU = CMOS input switching levels;
supply voltage range 2 to 6 V;
unbuffered (single-stage devices)

Family ratings

Limiting values in accordance with the Absolute Maximum System (IEC 134)

Voltages are referenced to GND (ground = 0 V)

parameter	conditions	symbol	min.	max.	unit
DC supply voltage		V_{CC}	−0.5	+7	V
DC input diode current	for $V_I < -0.5$ V or $V_I > V_{CC}+0.5$ V	$\pm I_{IK}$	–	20	mA
DC output diode current	for $V_O < -0.5$ V or $V_O > V_{CC}+0.5$ V	$\pm I_{OK}$	–	20	mA
DC output source or sink current	for -0.5 V $< V_O <$ $V_{CC}+0.5$ V				
	standard outputs	$\pm I_O$	–	25	mA
	bus driver outputs	$\pm I_O$	–	35	mA
DC V_{CC} or GND current	standard outputs	$\pm I_{CC}$; $\pm I_{GND}$	–	50	mA
	bus driver outputs	$\pm I_{CC}$; $\pm I_{GND}$	–	70	mA
Storage temperature range		T_{stg}	−65	+150	°C
Power dissipation per package	for temperature range; −40 to +125 °C; PC74HC/HCT/HCU				
plastic DIL	above +70 °C derate linearly by 12 mW/K	P_{tot}	–	750	mW
plastic mini-pack (SO)	above +70 °C derate linearly by 8 mW/K	P_{tot}	–	500	mW

Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

parameter	symbol	min.	typ.	max.	unit	conditions
DC supply voltage range						
PC74HC/HCU	V_{CC}	2.0	5.0	6.0	V	
PC74HCT	V_{CC}	4.5	5.0	5.5	V	
DC input voltage range	V_I	0	–	V_{CC}	V	
DC output voltage range	V_O	0	–	V_{CC}	V	
Operating ambient temperature range						
PC74HC/HCT/HCU	T_{amb}	−40	–	+85	°C	standard
PC74HC/HCT/HCU	T_{amb}	−40	–	+125	°C	extended
Input rise and fall times		–	–	1000	ns	V_{CC} = 2.0 V
except for Schmitt trigger inputs	t_r; t_f	–	6.0	500	ns	V_{CC} = 4.5 V
		–	–	400	ns	V_{CC} = 6.0 V

DC family characteristics, PC74HC

Voltages are referenced to GND (ground = 0 V)

	V_{CC}		T_{amb} (°C)								conditions	
			+25			−40 to +85		−40 to +125				
parameter	V	symbol	min.	typ.	max.	min.	max.	min.	max.	unit	V_I	other
HIGH level input voltage	2.0	V_{IH}	1.5	1.2	–	1.5	–	1.5	–	V		
	4.5		3.15	2.4	–	3.15	–	3.15	–	V		
	6.0		4.2	3.2	–	4.2	–	4.2	–	V		
LOW level input voltage	2.0	V_{IL}	–	0.8	0.5	–	0.5	–	0.5	V		
	4.5		–	2.1	1.35	–	1.35	–	1.35	V		
	6.0		–	2.8	1.8	–	1.8	–	1.8	V		
HIGH level output voltage all outputs	2.0	V_{OH}	1.9	2.0	–	1.9	–	1.9	–	V	V_{IH} or V_{IL}	$-I_O$ = 20 μA
	4.5		4.4	4.5	–	4.4	–	4.4	–	V		$-I_O$ = 20 μA
	6.0		5.9	6.0	–	5.9	–	5.9	–	V		$-I_O$ = 20 μA
HIGH level output voltage standard	4.5	V_{OH}	3.98	4.32	–	3.84	–	3.7	–	V	V_{IH} or V_{IL}	$-I_O$ = 4.0 mA
	6.0		5.48	5.81	–	5.34	–	5.2	–	V		$-I_O$ = 5.2 mA
HIGH level output voltage bus driver	4.5	V_{OH}	3.98	4.32	–	3.84	–	3.7	–	V	V_{IH} or V_{IL}	$-I_O$ = 6.0 mA
	6.0		5.48	5.81	–	5.34	–	5.2	–	V		$-I_O$ = 7.8 mA
LOW level output voltage all outputs	2.0	V_{OL}	–	0	0.1	–	0.1	–	0.1	V	V_{IH} or V_{IL}	I_O = 20 μA
	4.5		–	0	0.1	–	0.1	–	0.1	V		I_O = 20 μA
	6.0		–	0	0.1	–	0.1	–	0.1	V		I_O = 20 μA
LOW level output voltage standard	4.5	V_{OL}	–	0.15	0.26	–	0.33	–	0.4	V	V_{IH} or V_{IL}	I_O = 4.0 mA
	6.0		–	0.16	0.26	–	0.33	–	0.4	V		I_O = 5.2 mA
LOW level output voltage bus driver	4.5	V_{OL}	–	0.15	0.26	–	0.33	–	0.4	V	V_{IH} or V_{IL}	I_O = 6.0 mA
	6.0		–	0.16	0.26	–	0.33	–	0.4	V		I_O = 7.8 mA
Input leakage current	6.0	$\pm I_I$	–	–	0.1	–	1.0	–	1.0	μA	V_{CC} or GND	
3-state OFF-state current	6.0	$\pm I_{OZ}$	–	–	0.5	–	5.0	–	10.0	μA	V_{IH} or V_{IL}	V_O = V_{CC} or GND
Quiescent supply current												
SSI	6.0	I_{CC}	–	–	2.0	–	20.0	–	40.0	μA	V_{CC} or GND	I_O = 0
flip-flops	6.0	I_{CC}	–	–	4.0	–	40.0	–	80.0	μA		I_O = 0
MSI	6.0	I_{CC}	–	–	8.0	–	80.0	–	160.0	μA		I_O = 0
LSI	6.0	I_{CC}	–	–	50.0	–	500.0	–	1000.0	μA		I_O = 0

DC family characteristics, PC74HCU

Voltages are referenced to GND (ground = 0 V)

			T_{amb} (°C)									
			+25			−40 to +85		−40 to +125			conditions	
parameter	V_{CC} V	symbol	min.	typ.	max.	min.	max.	min.	max.	unit	V_I	other
HIGH level input voltage	2.0	V_{IH}	1.7	1.4	–	1.7	–	1.7	–	V		
	4.5		3.6	2.6	–	3.6	–	3.6	–	V		
	6.0		4.8	3.4	–	4.8	–	4.8	–	V		
LOW level input voltage	2.0	V_{IL}	–	0.6	0.3	–	0.3	–	0.3	V		
	4.5		–	1.9	0.9	–	0.9	–	0.9	V		
	6.0		–	2.6	1.2	–	1.2	–	1.2	V		
HIGH level output voltage	2.0	V_{OH}	1.8	2.0	–	1.8	–	1.8	–	V	V_{IH} or V_{IL}	$-I_O = 20\ \mu A$
	4.5		4.0	4.5	–	4.0	–	4.0	–	V		$-I_O = 20\ \mu A$
	6.0		5.5	6.0	–	5.5	–	5.5	–	V		$-I_O = 20\ \mu A$
HIGH level output voltage	4.5	V_{OH}	3.98	4.32	–	3.84	–	3.7	–	V	V_{CC} or GND	$-I_O = 4.0$ mA
	6.0		5.48	5.81	–	5.34	–	5.2	–	V		$-I_O = 5.2$ mA
LOW level output voltage	2.0	V_{OL}	–	0	0.2	–	0.2	–	0.2	V	V_{IH} or V_{IL}	$I_O = 20\ \mu A$
	4.5		–	0	0.5	–	0.5	–	0.5	V		$I_O = 20\ \mu A$
	6.0		–	0	0.5	–	0.5	–	0.5	V		$I_O = 20\ \mu A$
LOW level output voltage	4.5	V_{OL}	–	0.15	0.26	–	0.33	–	0.4	V	V_{CC} or GND	$I_O = 4.0$ mA
	6.0		–	0.16	0.26	–	0.33	–	0.4	V		$I_O = 5.2$ mA
Input leakage current	6.0	$\pm I_I$	–	–	0.1	–	1.0	–	1.0	μA	V_{CC} or GND	
Quiescent supply current **SSI**	6.0	I_{CC}	–	–	2.0	–	20.0	–	40.0	μA	V_{CC} or GND	$I_O = 0$

DC family characteristics, PC74HCT

Voltages are referenced to GND (ground = 0 V)

parameter	V_{CC} V	sym-bol	T_{amb} (°C) +25 min.	+25 typ.	+25 max.	−40 to +85 min.	−40 to +85 max.	−40 to +125 min.	−40 to +125 max.	unit	conditions V_I	conditions other
HIGH level input voltage	4.5–5.5	V_{IH}	2.0	1.6	–	2.0	–	2.0	–	V		
LOW level input voltage	4.5–5.5	V_{IL}	–	1.2	0.8	–	0.8	–	0.8	V		
HIGH level output voltage all outputs	4.5	V_{OH}	4.4	4.5	–	4.4	–	4.4	–	V	V_{IH} or V_{IL}	$-I_O$ = 20 μA
HIGH level output voltage standard	4.5	V_{OH}	3.98	4.32	–	3.84	–	3.7	–	V	V_{IH} or V_{IL}	$-I_O$ = 4.0 mA
HIGH level output voltage bus driver	4.5	V_{OH}	3.98	4.32	–	3.84	–	3.7	–	V	V_{IH} or V_{IL}	$-I_O$ = 6.0 mA
LOW level output voltage all outputs	4.5	V_{OL}	–	0	0.1	–	0.1	–	0.1	V	V_{IH} or V_{IL}	I_O = 20 μA
LOW level output voltage standard	4.5	V_{OL}	–	0.15	0.26	–	0.33	–	0.4	V	V_{IH} or V_{IL}	I_O = 4.0 mA
LOW level output voltage bus driver	4.5	V_{OL}	–	0.16	0.26	–	0.33	–	0.4	V	V_{IH} or V_{IL}	I_O = 6.0 mA
Input leakage current	5.5	$\pm I_I$	–	–	0.1	–	1.0	–	1.0	μA	V_{CC} or GND	
3-state OFF-state current	5.5	$\pm I_{OZ}$	–	–	0.5	–	5.0	–	10.0	μA	V_{IH} or V_{IL}	V_O = V_{CC} or GND; per input pin; other inputs at V_{CC} or GND; I_o = 0
Quiescent supply current												
SSI	5.5	I_{CC}	–	–	2.0	–	20.0	–	40.0	μA	V_{CC}	I_O = 0
flip-flops	5.5	I_{CC}	–	–	4.0	–	40.0	–	80.0	μA	or	I_O = 0
MSI	5.5	I_{CC}	–	–	8.0	–	80.0	–	160.0	μA	GND	I_O = 0
LSI	5.5	I_{CC}	–	–	50.0	–	500.0	–	1000.0	μA	GND	I_O = 0
A.Q.S.C. (see note)	4.5–5.5	ΔI_{CC}	–	100	360	–	450	–	490	μA	V_{CC} −2,1 V	other inputs at V_{CC} or GND I_O = 0

Note: Additional quiescent supply current (A.Q.S.C.) per input pin for unit load coefficient is 1.*

* The additional quiescent supply current per input is determined by the ΔI_{CC} unit load, which has to be multiplied by the unit load coefficient as given in the individual data sheets. For dual supply systems the theoretical worst-case (V_I = 2.4; V_{CC} = 5.5 V) specification is: ΔI_{CC} = 0.65 mA (typical) and 1.8 mA (maximum) across temperature.

AC family characteristics

GND = 0 V; C_L = 50 pF; $t_r = t_f$ = 6 ns

PC74HC

			T_{amb} (°C)							
	V_{CC}		+25			−40 to +85		−40 to +125		
parameter	V	symbol	min.	typ.	max.	min.	max.	min.	max.	unit
Output transition time standard outputs	2.0	t_{THL}/ t_{TLH}	–	19	75	–	95	–	110	ns
	4.5		–	7	15	–	19	–	22	ns
	6.0		–	6	13	–	16	–	19	ns
Output transition time bus driver outputs	2.0	t_{THL} t_{TLH}	–	14	60	–	75	–	90	ns
	4.5		–	5	12	–	15	–	18	ns
	6.0		–	4	10	–	13	–	15	ns

PC74HCU

			T_{amb} (°C)							
	V_{CC}		+25			−40 to +85		−40 to +125		
parameter	V	symbol	min.	typ.	max.	min.	max.	min.	max.	unit
Output transition time	2.0	t_{THL} t_{TLH}	–	19	75	–	95	–	110	ns
	4.5		–	7	15	–	19	–	22	ns
	6.0		–	6	13	–	16	–	19	ns

PC74HCT

			T_{amb} (°C)							
	V_{CC}		+25			−40 to +85		−40 to +125		
parameter	V	symbol	min.	typ.	max.	min.	max.	min.	max.	unit
Output transition time standard outputs	4.5	t_{THL}/ t_{TLH}	–	7	15	–	19	–	22	ns
Output transition time bus driver outputs	4.5	t_{THL}/ t_{TLH}	–	5	12	–	15	–	18	ns

HCMOS PC74 FAMILY SURVEY

Type numbers have a suffix which signifies the type of package:
P = plastic DIL; T = plastic SO mini-pack

PC74 FAMILY		HC	HCT
ARITHMETIC ICs			
181	4-bit arithmetic logic unit	●	●
182	look-ahead carry generator	●	●
280	9-bit odd/even parity generator/checker	●	●
283	4-bit binary full adder with fast carry	●	●
583	4-bit full adder with fast carry	●	●
7080	16-bit even/odd parity generator/checker	●	●
BUFFERS/LINE DRIVERS			
125	quad buffer/line driver; 3-state; output enable active LOW	●	●
126	quad buffer/line driver; 3-state; output enable active HIGH	●	●
240	octal buffer/line driver; 3-state; inverting	●	●
241	octal buffer/line driver; 3-state; output enable active low or HIGH	●	●
244	octal buffer/line driver; 3-state; output enable active LOW	●	●
365	hex buffer/line driver; 3-state	●	●
366	hex buffer/line driver; 3-state; inverting	●	●
367	hex buffer/line driver; 3-state	●	●
368	hex buffer/line driver; 3-state; inverting	●	●
540	octal buffer/line driver; 3-state; inverting	●	●
541	octal buffer/line driver; 3-state	●	●
7540	octal Schmitt trigger buffer/line driver; 3-state; inverting	●	●
7541	octal Schmitt trigger buffer/line driver; 3-state	●	●
9014	nine-wide Schmitt trigger buffer/line driver; inverting	●	●
9015	nine-wide Schmitt trigger buffer/line driver	●	●
9114	nine-wide Schmitt trigger buffer; open drain output; inverting	●	●
9115	nine-wide Schmitt trigger buffer; open drain output	●	●
BUS ICs			
242	quad bus transceiver; 3-state; inverting	●	●
243	quad bus transceiver; 3-state	●	●
245	octal bus transceiver; 3-state	●	●
640	octal bus transceiver; 3-state; inverting	●	●
643	octal bus transceiver; 3-state; true/inverting	●	●
646	octal bus transceiver/register; 3-state	●	●
648	octal bus transceiver/register; 3-state; inverting	●	●
COMPARATORS			
85	4-bit magnitude comparator	●	●
688	8-bit magnitude comparator	●	●

PC74 FAMILY		HC	HCT
COUNTERS			
93	4–bit binary ripple counter	●	●
160	presettable synchronous BCD decade counter; asynchronous reset	●	●
161	presettable synchronous 4–bit binary counter; asynchronous reset	●	●
162	presettable synchronous BCD decade counter; synchronous reset	●	●
163	presettable synchronous 4–bit binary counter; synchronous reset	●	●
190	presettable synchronous BCD decade up/down counter	●	●
191	presettable synchronous 4–bit binary up/down counter	●	●
192	presettable synchronous BCD decade up/down counter	●	●
193	presettable synchronous 4–bit binary up/down counter	●	●
390	dual decade ripple counter	●	●
393	dual 4–bit binary ripple counter	●	●
4017	Johnson decade counter with 10 decoded outputs	●	●
4020	14–stage binary ripple counter	●	●
4024	7–stage binary ripple counter	●	●
4040	12–stage binary ripple counter	●	●
4059	programmable divide–by–n counter	●	●
4060	14–stage binary ripple counter with oscillator	●	●
4510	BCD up/down counter	●	●
4516	binary up/down counter	●	●
4518	dual synchronous BCD counter	●	●
4520	dual synchronous 4–bit binary counter	●	●
40102	8–bit synchronous BCD down counter	●	●
40103	8–bit synchronous binary down counter	●	●
DECODERS			
42	BCD to decimal decoder (1–of–10)	●	●
137	3–to–8 line decoder/demultiplexer with address latches	●	●
138	3–to–8 line decoder/demultiplexer; inverting	●	●
139	dual 2–to–4 line decoder/demultiplexer	●	●
154	4–to–16 line decoder/demultiplexer	●	●
237	3–to–8 line decoder/demultiplexer with address latches	●	●
238	3–to–8 line decoder/demultiplexer	●	●
4511	BCD to 7–segment latch/decoder/driver	●	●
4514	4–to–16 line decoder/demultiplexer with input latches	●	●
4515	4–to–16 line decoder/demultiplexer with input latches	●	●
4543	BCD–to–7 segment latch/decoder/driver for LCDs	●	●
DEMULTIPLEXERS			
4051	8–channel analog multiplexer/demultiplexer	●	●
4052	dual 4–channel analog multiplexer/demultiplexer	●	●
4053	triple 2–channel analog multiplexer/demultiplexer	●	●
4067	16–channel analog multiplexer/demultiplexer	●	●

PC74 FAMILY		HC	HCT
DEMULTIPLEXERS (cont.)			
4351	8–channel analog multiplexer/demultiplexer with latch	●	●
4352	dual 4–channel analog multiplexer/demultiplexer with latch	●	●
4353	triple 2–channel analog multiplexer/demultiplexer with latch	●	●
4514	4–to–16 line decoder/demultiplexer with input latches	●	●
4515	4–to–16 line decoder/demultiplexer with input latches	●	●
DRIVERS			
4511	BCD to 7–segment latch/decoder/driver	●	●
4543	BCD–to–7 segment latch/decoder/driver for LCDs	●	●
ENCODERS			
147	10–to–4 line priority encoder	●	●
FLIP–FLOPS			
D–type			
74	dual D–type flip–flop with set and reset; positive edge–trigger	●	●
173	quad D–type flip–flop; positive–edge trigger; 3–state	●	●
174	hex D–type flip–flop with reset; positive–edge trigger	●	●
175	quad D–type flip–flop with reset; positive edge–trigger	●	●
273	octal D–type flip–flop with reset; positive edge–trigger	●	●
373	octal D–type transparent latch; 3–state	●	●
374	octal D–type flip–flop; positive–edge trigger; 3–state	●	●
377	octal D–type flip–flop with data enable; positive–edge trigger	●	●
533	octal D–type transparent latch; 3–state; inverting	●	●
534	octal D–type flip–flop; positive–edge trigger; 3–state; inverting	●	●
563	octal D–type transparent latch; 3–state; inverting; bus–oriented pin–out	●	●
564	octal D–type flip–flop; positive–edge trigger; 3–state; inverting; bus–oriented pin–out	●	●
573	octal D–type transparent latch; 3–state; bus–oriented pin–out	●	●
574	octal D–type flip–flop; positive–edge trigger; 3–state; bus–oriented pin–out	●	●

PC74 FAMILY		HC	HCT
FLIP–FLOPS (cont.)			
JK			
73	dual JK flip–flop with reset; negative–edge trigger; supply on centre pins	●	●
107	dual JK flip–flop with reset; negative–edge trigger	●	●
109	dual JK flip–flop with set and reset; positive edge–trigger	●	●
112	dual JK flip–flop with set and reset; negative edge–trigger	●	●
GATES			
AND			
08	quad 2–input AND gate	●	●
11	triple 3–input AND gate	●	●
21	dual 4–input AND gate	●	●
58	dual AND–OR gate	●	
EXCLUSIVE–OR			
86	quad 2–input EXCLUSIVE–OR gate	●	●
EXCLUSIVE–NOR			
7266	quad 2–input EXCLUSIVE–NOR gate	●	
NAND			
00	quad 2–input NAND gate	●	●
03	quad 2–input NAND gate; open drain	●	●
10	triple 3–input NAND gate	●	●
20	dual 4–input NAND gate	●	●
30	8–input NAND gate	●	●
NOR			
02	quad 2–input NOR gate	●	●
27	triple 3–input NOR gate	●	●
4002	dual 4–input NOR gate	●	●
OR			
32	quad 2–input OR gate	●	●
58	dual AND–OR gate	●	
4075	triple 3–input OR gate	●	●
INVERTERS			
04	hex inverter	●	●
U04	hex inverter (unbuffered)	●	

PC74 FAMILY		HC	HCT
LATCHES			
75	quad bistable transparent latch	●	●
259	8–bit addressable latch	●	●
354	8–input multiplexer/register with transparent latches; 3–state	●	●
LEVEL SHIFTERS			
4049	hex inverting HIGH–to–LOW level shifter	●	
4050	hex HIGH–to–LOW level shifter	●	
MULTIPLEXERS			
151	8–input multiplexer	●	●
153	dual 4–input multiplexer	●	●
157	quad 2–input multiplexer	●	●
158	quad 2–input multiplexer; inverting	●	●
251	8–input multiplexer; 3–state	●	●
253	dual 4–input multiplexer; 3–state	●	●
257	quad 2–input multiplexer; 3–state	●	●
258	quad 2–input multiplexer; 3–state; inverting	●	●
354	8–input multiplexer/register with transparent latches; 3–state	●	●
356	8–input multiplexer/register; 3–state	●	●
4051	8–channel analog multiplexer/demultiplexer	●	●
4052	dual 4–channel analog multiplexer/demultiplexer	●	●
4053	triple 2–channel analog multiplexer/demultiplexer	●	●
4067	16–channel analog multiplexer/demultiplexer	●	●
4351	8–channel analog multiplexer/demultiplexer with latch	●	●
4352	dual 4–channel analog multiplexer/demultiplexer with latch	●	●
4353	triple 2–channel analog multiplexer/demultiplexer with latch	●	●
MULTIVIBRATORS			
5555	programmable delay timer with oscillator	●	●
One–shot			
123	dual retriggerable monostable multivibrator with reset	●	●
221	dual non–retriggerable monostable multivibrator with reset	●	●
423	dual retriggerable monostable multivibrator with reset	●	●
4538	dual retriggerable precision monostable multivibrator	●	●
5555	programmable delay timer with oscillator	●	●
REGISTERS			
164	8–bit serial–in/parallel–out shift register	●	●
165	8–bit parallel–in/serial–out shift register	●	●
166	8–bit parallel–in/serial–out shift register; with reset	●	●

PC74 FAMILY		HC	HCT
REGISTERS (cont.)			
194	4–bit bidirectional universal shift register	●	●
195	4–bit parallel access shift register	●	●
299	8–bit universal shift register; 3–state	●	●
354	8–input multiplexer/register with transparent latches; 3–state	●	●
356	8–input multiplexer/register; 3–state	●	●
597	8–bit shift register with input latches	●	●
670	4 x 4 register file; 3–state	●	●
4015	dual 4–bit serial–in/parallel–out shift register	●	●
4094	8–stage shift–and–store bus register	●	●
7030	9–bit x 64 word FIFO register; 3–state	●	●
7597	8–bit shift register with input latches	●	●
40104	4–bit bidirectional universal shift register; 3–state	●	●
40105	4–bit x 16 word FIFO register	●	●
SCHMITT TRIGGERS			
14	hex inverting Schmitt trigger	●	●
132	quad 2–input NAND Schmitt trigger	●	●
7540	octal Schmitt trigger buffer/line driver; 3–state; inverting	●	●
7541	octal Schmitt trigger buffer/line driver; 3–state	●	●
9014	nine–wide Schmitt trigger buffer/line driver; inverting	●	●
9015	nine–wide Schmitt trigger buffer/line driver	●	●
9114	nine–wide Schmitt trigger buffer; open drain output; inverting	●	●
9115	nine–wide Schmitt trigger buffer; open drain output	●	●
SPECIAL FUNCTIONS			
297	digital phase–locked–loop filter	●	●
4046A	phase–locked loop with VCO	●	●
7046A	PLL with lock detector	●	●
SWITCHES			
4016	quad bilateral switches (uncompensated switches)	●	●
4066	quad bilateral switches	●	●
4316	quad bilateral switches; separate analog ground	●	●
TRANCEIVERS			
242	quad bus transceiver; 3–state; inverting	●	●
243	quad bus transceiver; 3–state	●	●
245	octal bus transceiver; 3–state	●	●
640	octal bus transceiver; 3–state; inverting	●	●
643	octal bus transceiver; 3–state; true/inverting	●	●
646	octal bus transceiver/register; 3–state	●	●
648	octal bus transceiver/register; 3–state; inverting	●	●

ACL 74 FAMILY SPECIFICATIONS

General

These family specifications cover the common electrical ratings and characteristics of the entire ACL 74 family, unless otherwise specified in the individual device data sheet.

Introduction

The 74AC/ACT11XXX 1 μm CMOS logic family combines the low power advantages of CMOS family with the high speed and drive capability of FAST TTL.
The basic family of devices, designated as 74AC11XXX, will operate at CMOS input logic levels for high noise immunity, negligible quiescent supply and input current. It operates from a power supply of 3 to 5.5 V.
A subset of the family, designated as 74ACT11XXX, with the same features and functions as the "AC–types", will operate at standard TTL power supply voltage (5 V ± 10%) and logic input levels (0,8 to 2,0 V).

Handling MOS devices

Inputs and outputs are protected against electrostatic effects in a wide variety of device–handling situations. However, to be totally safe, it is desirable to take handling precautions into account.

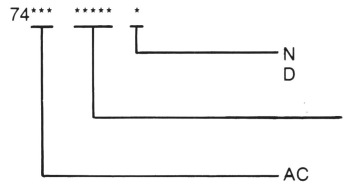
Features

- Comprehensive type range from simple gates to shift registers and counters
- All types available in 74AC versions (CMOS input levels) and ACT versions (TTL input levels)
- All types available in small outline (SO) and plastic dual in–line (PLDIL) packages
- Completely latch–up free
- Highly immune to electrostatic discharge
- Low power dissipation
- 24 mA sink/source current
- Input current only 1 μA in the HIGH or LOW state. The fan–out to other CMOS ICs) is therefore limited only by load capacitance and not by DC load considerations
- More than three times the noise immunity of TTL
- Input switching threshold level varies by only ±60 mV over the entire temperature range (±300 mV is specified for advanced TTL families)
- Wide supply voltage range:
  3 to 5.5 V for 74AC devices (internal logic states are maintained down to 2 V)
  5 V ± 10% for 74ACT devices
- On–chip propagation delay for a single gate is 0.5 ns; with a 5 V supply and 50 pF load, average propagation delay for a device is 5 ns (HIGH–to–LOW or LOW–to–HIGH)
- Outputs have edge–control circuits that reduce switching noise
- Output buffers are standardized to allow symmetrical output current sourcing and sinking for equal output rise and fall times
- Centre supply pins and flow–through architecture minimize ground and supply rail glitches during simultaneous switching of outputs, and simplify board layout
- All inputs that control more than one output have a new (patented) dynamic hysteresis that reduces susceptibility to slow input edges
- Wide operating temperature range: −40 to +85 °C
- Alternate source is TI

Type number designation

Basic family:

74*** ***** * complete type number; standard commercial temperature range



package code:
N = plastic DIL;
D = plastic mini-pack (SO)

device number (3 digits, functionally compatible to LSTTL code; 000 = 00, 074 = 74)

AC = CMOS input switching levels; supply voltage range 3 to 5.5 V

ACT = TTL input switching levels; supply voltage range 5 V ± 10%;

Family ratings

Limiting values in accordance with the Absolute Maximum System (IEC 134)

Voltages are referenced to GND (ground = 0 V)

parameter	conditions	symbol	min.	max.	unit
DC supply voltage		V_{CC}	−0.5	+7	V
DC input diode current	$V_I < 0$ or $V_I > V_{CC}$	$\pm I_{IK}$	–	20	mA
DC input voltage		V_I	−0.5	V_{CC} +0.5	V
DC output diode current	$V_O < 0$ or $V_O > V_{CC}$	$\pm I_{OK}$	–	50	mA
DC output voltage		V_O	−0.5	V_{CC} +0.5	V
DC output source or sink current	$-0.5\ V < V_O < V_{CC} + 0.5\ V$	$\pm I_O$	–	50	mA
Storage temperature range		T_{stg}	−65	+150	°C
Power dissipation per package					
plastic DIL	above +70 °C derate linearly by 8 mW/K	P_{tot}	–	500	mW
plastic mini-pack (SO)	above +70 °C derate linearly by 6 mW/K	P_{tot}	–	400	mW

IC

Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

parameter	symbol	min.	typ.	max.	unit	conditions
DC supply voltage range						
74AC	V_{CC}	3.0	5.0	5.5	V	
74ACT	V_{CC}	4.5	5.0	5.5	V	
HIGH level input voltage						
74AC	V_{IH}	2.1	–	–	V	V_{CC} = 3 V
		3.15	–	–	V	V_{CC} = 4.5 V
		3.85	–	–	V	V_{CC} = 5.5 V
74ACT	V_{IH}	2.0	–	–	V	V_{CC} = 4.5 V
		2.0	–	–	V	V_{CC} = 5.5 V
LOW level input voltage						
74AC	V_{IL}	–	–	0.9	V	V_{CC} = 3.0 V
		–	–	1.35	V	V_{CC} = 4.5 V
		–	–	1.65	V	V_{CC} = 5.5 V
74ACT	V_{IL}	–	–	0.8	V	V_{CC} = 4.5 V
		–	–	0.8	V	V_{CC} = 5.5 V
DC input voltage range	V_I	0	–	V_{CC}	V	
DC output voltage range	V_O	0	–	V_{CC}	V	
Operating ambient temperature range	T_{amb}	−40	–	+85	°C	standard

DC family characteristics, 74AC

Voltages are referenced to GND (ground = 0 V)

parameter	V_{CC} V	symbol	T_{amb} (°C) +25 min.	+25 typ.	+25 max.	−40 to +85 min.	−40 to +85 max.	unit	conditions V_I	conditions other
HIGH level output voltage	3.0	V_{OH}	2.9	–	–	2.9	–	V	V_{IH}	$-I_O$ = 50 µA
	4.5		4.4	–	–	4.4	–	V	or	$-I_O$ = 50 µA
	5.5		5.4	–	–	5.4	–	V	V_{IL}	$-I_O$ = 50 µA
	3.0	V_{OH}	2.58	–	–	2.48	–	V	V_{IH}	$-I_O$ = 4 mA
	4.5		3.94	–	–	3.80	–	V	or	$-I_O$ = 24 mA
	5.5		4.94	–	–	4.80	–	V	V_{IL}	$-I_O$ = 24 mA
HIGH level output drive	5.5	V_{OH}	–	–	–	3.85	–	V		$-I_O$ = 75 mA see note
LOW level output voltage	3.0	V_{OL}	–	–	0.1	–	0.1	V	V_{IH}	I_O = 50 µA
	4.5		–	–	0.1	–	0.1	V	or	I_O = 50 µA
	5.5		–	–	0.1	–	0.1	V	V_{IL}	I_O = 50 µA
	3.0	V_{OL}	–	–	0.36	–	0.44	V	V_{IH}	I_O = 12 mA
	4.5		–	–	0.36	–	0.44	V	or	I_O = 24 mA
	5.5		–	–	0.36	–	0.44	V	V_{IL}	I_O = 24 mA
LOW level output drive	5.5	V_{OH}	–	–	–	–	1.65	V		I_O = 75 mA see note
Input leakage current	5.5	$\pm I_I$	–	–	0.1	–	1.0	µA	V_{CC} or GND	
3–state OFF–state current	5.5	$\pm I_{OZ}$	–	–	0.5	–	5.0	µA	V_{IH} or V_{IL}	V_O = V_{CC} or GND
Quiescent supply current										
SSI	5.5	I_{CC}	–	–	4.0	–	40	µA	V_{CC} or GND	I_O = 0
MSI	5.5	I_{CC}	–	–	8.0	–	80	µA		I_O = 0

Note: Not more than one output should be tested at a time and the duration of the test should not exceed 10 ms. This parameter has been introduced the meet the requirements of incident wave switching of 50 Ω loads.

DC family characteristics, 74ACT

Voltages are referenced to GND (ground = 0 V)

parameter	V_{CC} V	sym-bol	T_{amb} (°C) +25 min.	+25 typ.	+25 max.	−40 to +85 min.	−40 to +85 max.	unit	conditions V_I	conditions other
HIGH level output voltage	4.5	V_{OH}	4.4 3.94	– –	– –	4.4 3.8	– –	V V	V_{IH} or V_{IL}	$-I_O$ = 50 µA $-I_O$ = 24 µA
HIGH level output drive	5.5	V_{OH}	–	–	–	3.85	–	V	V_{IH} or V_{IL}	$-I_O$ = 75 mA see note 1
LOW level output voltage	4.5	V_{OL}	– –	– –	0.1 0.36	–	0.1 0.44	V V	V_{IH} or V_{IL}	I_O = 50 µA I_O = 24 µA
LOW level output drive	5.5	V_{OL}	–	–	–	–	1.65	V	V_{IH} or V_{IL}	I_O = 75 mA see note 1
3–state OFF–state current	5.5	$\pm I_{OZ}$	–	–	0.5	–	5.0	µA	V_{IH} or V_{IL}	$V_O = V_{CC}$ or GND
Quiescent supply current										
SSI	5.5	I_{CC}	–	–	4.0	–	40	µA	V_{CC} or GND	I_O = 0
MSI	5.5	I_{CC}	–	–	8.0	–	80	µA		I_O = 0
A.Q.S.C. (see note 2)	5.5	ΔI_{CC}	–	0.9	1.0	–	1.0	µA	V_{CC} or GND	I_O = 0 one input at 3.4 V

Note 1: Not more than one output should be tested at a time and the duration of the test should not exceed 10 ms. This parameter has been introduced the meet the requirements of incident wave switching of 50 Ω loads.

Note 2: Additional quiescent supply current (A.Q.S.C.) per input pin for unit load coefficient is 1.

ACL 74 FAMILY SURVEY

74AC/ACT FAMILY		AC	ACT
ARITHMETIC ICs			
11181	4–bit arithmetic unit	●	●
11280	9–bit odd/even parity generator/checker	●	●
11286	9–bit odd/even parity generator/checker with bus driver I/O port	●	●
11520	8–bit identity comparator with input pull–up	●	●
11521	8–bit identity comparator	●	●
11881	4–bit arithmetic logic unit with status check register	●	●
11882	32–bit look–ahead carry generator	●	●
BUFFERS/LINE DRIVERS			
11240	octal buffer/line driver; 3–state; inverting	●	●
11241	octal buffer/line driver; 3–state	●	●
11244	octal buffer/line driver; 3–state	●	●
11655	octal buffer/line driver with 9–bit parity generator/checker; 3–state; inverting	●	●
11656	octal buffer/line driver with 9–bit parity generator/checker; 3–state	●	●
11827	10–wide buffer/line driver; 3–state	●	●
11828	10–wide buffer/line driver; 3–state; inverting	●	●
COMPARATORS			
11677	16–bit address comparator with enable	●	●
11678	16–bit address comparator with output latch	●	●
11860	8–bit address comparator	●	●
11865	8–bit address comparator	●	●
11885	8–bit address comparator	●	●
COUNTERS			
11160	synchronous presettable, synchronous BCD decade counter; asynchronous reset	●	●
11161	synchronous presettable, synchronous 4–bit binary counter; asynchronous reset	●	●
11162	synchronous presettable, synchronous BCD decade counter; synchronous reset	●	●
11163	synchronous presettable, synchronous 4–bit binary counter; synchronous reset	●	●
11168	synchronous BCD decade up/down counter	●	●
11169	synchronous presettable, synchronous 4–bit binary decade up/down counter	●	●
11190	asynchronous presettable, synchronous BCD decade up/down counter with single clock	●	●
11191	asynchronous presettable, synchronous 4–bit binary up/down counter with single clock	●	●
11192	asynchronous presettable, synchronous BCD decade up/down counter with dual clock	●	●
11193	asynchronous presettable, synchronous 4–bit binary up/down counter with dual clock	●	●

74AC/ACT FAMILY		AC	ACT
COUNTERS (cont.)			
11269	synchronous presettable, 4–bit binary up/down counter	●	●
11461	synchronous presettable, synchronous 8–bit binary counter; asynchronous reset	●	●
11463	synchronous presettable, synchronous 8–bit binary counter; synchronous reset	●	●
11469	synchronous presettable, synchronous 8–bit binary up/down counter	●	●
11568	synchronous presettable, BCD decade up/down counter with synchronous and asynchronous reset	●	●
11569	synchronous presettable, 4–bit binary up/down counter with synchronous and asynchronous reset	●	●
11579	8–bit binary up/down counter with common I/O pins; synchronous and asynchronous reset; 3–state	●	●
11590	synchronous 8–bit binary counter with output registers; asynchronous reset	●	●
11592	synchronous 8–bit binary counter with input registers; asynchronous reset	●	●
11593	synchronous 8–bit binary counter with input registers; asynchronous reset; 3–state	●	●
11867	synchronous presettable, synchronous 8–bit binary up/down counter; asynchronous reset	●	●
11869	synchronous presettable, synchronous 8–bit binary up/down counter; synchronous reset	●	●
DECODERS			
11138	3–to–8 line decoder/demultiplexer; active–LOW	●	●
11139	dual 2–to–4 line decoder/demultiplexer; active–LOW	●	●
11154	4–to–16 line decoder/demultiplexer	●	●
11238	3–to–8 line decoder/demultiplexer; active–HIGH	●	●
11239	dual 2–to–4 line decoder/demultiplexer; active–HIGH	●	●
DEMULTIPLEXERS			
11138	3–to–8 line decoder/demultiplexer; active–LOW	●	●
11139	dual 2–to–4 line decoder/demultiplexer; active–LOW	●	●
11154	4–to–16 line decoder/demultiplexer	●	●
11238	3–to–8 line decoder/demultiplexer; active–HIGH	●	●
11239	dual 2–to–4 line decoder/demultiplexer; active–HIGH	●	●
DRIVERS			
11208	dual 1–to–4 line driver; 3–state	●	●
11240	octal buffer/line driver; 3–state; inverting	●	●
11241	octal buffer/line driver; 3–state	●	●
11244	octal buffer/line driver; 3–state	●	●
11655	octal buffer/line driver with 9–bit parity generator/checker; 3–state; inverting	●	●
11656	octal buffer/line driver with 9–bit parity generator/checker; 3–state	●	●
11827	10–wide buffer/line driver; 3–state	●	●
11828	10–wide buffer/line driver; 3–state; inverting	●	●

74AC/ACT FAMILY		AC	ACT
FLIP–FLOPS			
D–type			
11074	dual D–type flip–flop with set and reset; positive–edge trigger	●	●
11174	hex D–type flip–flop with reset; positive–edge trigger	●	●
11175	quad D–type flip–flop with reset; positive–edge trigger	●	●
11273	octal D–type flip–flop with reset; positive–edge trigger	●	●
11373	octal D–type transparent latch; 3–state	●	●
11374	octal D–type flip–flop; positive–edge trigger; 3–state	●	●
11377	octal D–type flip–flop with enable; positive–edge trigger	●	●
11378	hex D–type flip–flop with enable; positive–edge trigger	●	●
11379	quad D–type flip–flop with data enable	●	●
11533	octal D–type transparent latch; 3–state; inverting	●	●
11534	octal D–type flip–flop; positive–edge trigger; 3–state; inverting	●	●
11821	10–wide D–type flip–flop; positive–edge trigger; 3–state	●	●
11822	10–wide D–type flip–flop; positive–edge trigger; 3–state; inverting	●	●
11823	9–wide D–type flip–flop with reset and enable; positive–edge trigger; 3–state	●	●
11824	9–wide D–type flip–flop with reset and enable; positive–edge trigger; 3–state; inverting	●	●
11825	octal D–type flip–flop with reset and enable; positive–edge trigger; 3–state	●	●
11826	octal D–type flip–flop with reset and enable; positive–edge trigger; 3–state; inverting	●	●
11841	10–wide D–type transparent latch; 3–state	●	●
11842	10–wide D–type transparent latch; 3–state; inverting	●	●
11843	9–wide D–type transparent latch with set and reset; 3–state	●	●
11844	9–wide D–type transparent latch with set and reset; 3–state; inverting	●	●
11845	octal D–type transparent latch with set and reset; 3–state	●	●
11846	octal D–type transparent latch with set and reset; 3–state; inverting	●	●
11873	dual D–type transparent latch with reset; 3–state	●	●
11874	dual D–type 4–bit flip–flop latch with reset; 3–state	●	●
JK			
11109	dual JK with set and reset; positive–edge trigger	●	●
11112	dual JK with set and reset; negative–edge trigger	●	●

74AC/ACT FAMILY		AC	ACT
GATES			
AND			
11008	quad 2–input AND gate		
11011	triple 3–input AND gate		
11021	dual 4–input AND gate		
11051	dual 2–wide 2–input, 2–wide 3–input AND–OR–invert gate		
11064	4–2–3–2–input AND–OR–invert gate		
11800	triple 4–input AND/NAND gate		
Complex			
11051	dual 2–wide 2–input, 2–wide 3–input AND–OR–invert gate		
11064	4–2–3–2–input AND–OR–invert gate		
EXCLUSIVE–OR			
11086	quad 2–input EXCLUSIVE–OR gate		
EXCLUSIVE–NOR			
11810	quad 2–input EXCLUSIVE–NOR gate		
Inverter			
11051	dual 2–wide 2–input, 2–wide 3–input AND–OR–invert gate		
11064	4–2–3–2–input AND–OR–invert gate		
NAND			
11000	quad 2–input NAND gate		
11010	triple 3–input NAND gate		
11013	dual 4–input NAND Schmitt trigger		
11020	dual 4–input NAND gate		
11030	8–input NAND gate		
11132	quad 2–input NAND Schmitt trigger		
NOR			
11002	quad 2–input NOR gate		
11027	triple 3–input NOR gate		
11802	triple 4–input OR/NOR gate		
OR			
11032	quad 2–input OR gate		
11064	4–2–3–2–input AND–OR–invert gate		
11802	triple 4–input OR/NOR gate		

74AC/ACT FAMILY SERIES		AC	ACT
INVERTERS			
11004	hex inverter	●	●
11014	hex inverter Schmitt trigger	●	●
11034	hex non–inverter	●	●
LATCHES			
11373	octal D–type transparent latch; 3–state	●	●
11533	octal D–type transparent latch; 3–state; inverting	●	●
11841	10–wide D–type transparent latch; 3–state	●	●
11842	10–wide D–type transparent latch; 3–state; inverting	●	●
11843	9–wide D–type transparent latch with set and reset; 3–state	●	●
11844	9–wide D–type transparent latch with set and reset; 3–state; inverting	●	●
11845	octal D–type transparent latch with set and reset; 3–state	●	●
11846	octal D–type transparent latch with set and reset; 3–state; inverting	●	●
11873	dual D–type transparent latch with reset; 3–state	●	●
MULTIPLEXERS			
11150	16–input multiplexer; 3–state; inverting	●	●
11151	8–input multiplexer	●	●
11153	dual 4–input multiplexer	●	●
11157	quad 2–input multiplexer	●	●
11158	quad 2–input multiplexer; inverting	●	●
11250	16–input multiplexer; 3–state	●	●
11251	8–input multiplexer; 3–state	●	●
11253	dual 4–input multiplexer; 3–state	●	●
11257	quad 2–input multiplexer; 3–state	●	●
11258	quad 2–input multiplexer; 3–state; inverting	●	●
11352	dual 4–input multiplexer; inverting	●	●
11353	dual 4–input multiplexer; 3–state; inverting	●	●
REGISTERS			
11194	4–bit bidirectional universal shift register	●	●
11299	8–bit universal shift/storage register with asynchronous reset and common I/O pins	●	●
11323	8–bit universal shift/storage register with synchronous reset and common I/O pins	●	●
11818	8–bit diagnostic/pipe–line register	●	●
11819	8–bit diagnostic/pipe–line register with parity output	●	●
11858	16–word by 5–bit dual port register	●	●
11859	32–word by 4–bit dual port register	●	●
11870	14–word by 4–bit register	●	●
11898	10–bit serial–in parallel–out shift register	●	●
11979	8–bit multiplexed I/O read–back register	●	●
11980	16–word by 8–bit multiplexed I/O read–back register	●	●
11981	16–word by 8–bit multiplexed I/O read–back register with address latch	●	●

74AC/ACT FAMILY		AC	ACT
REGISTERS (cont.)			
11987	8–word by 9–bit multiplexed I/O read–back register	●	●
11988	8–word by 9–bit multiplexed I/O read–back register with address latch	●	●
SCHMITT TRIGGERS			
11013	dual 4–input NAND Schmitt trigger	●	●
11014	hex inverter Schmitt trigger	●	●
11132	quad 2–input NAND Schmitt trigger	●	●
TRANCEIVERS			
11245	octal transceiver with direction pin; 3–state	●	●
11470	octal transceiver/register with dual enable; 3–state	●	●
11471	octal transceiver/register with dual enable; 3–state; inverting	●	●
11472	9–wide latched transceiver with dual enable; 3–state	●	●
11473	9–wide latched transceiver with dual enable; 3–state; inverting	●	●
11474	9–wide latched transceiver/register with dual enable; 3–state	●	●
11475	9–wide latched transceiver/register with dual enable; 3–state; inverting	●	●
11543	octal latched transceiver with dual enable; 3–state	●	●
11544	octal latched transceiver with dual enable; 3–state; inverting	●	●
11620	octal transceiver with dual enable; 3–state; inverting	●	●
11623	octal transceiver with dual enable; 3–state	●	●
11640	octal transceiver with direction pin; 3–state; inverting	●	●
11643	octal transceiver; 3–state; true/inverting	●	●
11646	octal transceiver/register with direction pin; 3–state	●	●
11648	octal transceiver/register with direction pin; 3–state; inverting	●	●
11651	octal transceiver/register with dual enable; 3–state; inverting	●	●
11652	octal transceiver/register with dual enable; 3–state	●	●
11657	octal transceiver with 8–bit parity checker/ generator	●	●
11833	8–bit transceiver with 9–bit parity checker/ generator and error flip–flop	●	●
11834	8–bit inverting transceiver with 9–bit parity checker/generator and error flip–flop	●	●
11852	8–bit universal transceiver port controller	●	●
11853	8–bit transceiver with 9–bit parity checker/ generator and error flag latch	●	●
11854	8–bit inverting transceiver with 9–bit parity checker/generator and error flag latch	●	●
11856	8–bit universal transceiver port controller	●	●
11861	10–wide transceiver; 3–state	●	●

74AC/ACT FAMILY		AC	ACT
TRANCEIVERS (cont.)			
11862	10–wide transceiver; 3–state; inverting		
11863	9–wide transceiver; 3–state		
11864	9–wide transceiver; 3–state; inverting		
11877	8–bit universal transceiver port controller		

TTL FAMILY CHARACTERISTICS COMPARISON

	SSI gates propagation delay	flip–flops toggle rate	MSI ALU 4–bit add time
STANDARD TTL (STD: basic type number 74XX) 7400 Series SSI and MSI 8200 Series MSI 9300 and 9600 Series MSI Standard "gold doped" TTL is the industry's longest selling digital logic family still in high volume production. New system designs generally favor the Low Power Schottky TTL equivalent functions.	10 ns at 10 mW	25 MHz	27 ns
LOW POWER SCHOTTKY TTL (LS) 74LS00 Series SSI and MSI Low power Schottky provides the same speed as standard TTL at 1/5 the power. The power savings and LSI potential are encouraging the use of 74LS in most new system designs.	10 ns at 2 mW	30 MHz	21 ns
SCHOTTKY TTL (S) 74S00 Series SSI, MSI and 82S00 Series MSI Schottky TTL uses a diode clamp design to ensure the highest speed possible at TTL logic levels.	3 ns at 30 mW	90 MHz	11 ns
FAST TTL (F) 74F00 Series SSI and MSI New FAST Series offers higher speeds than Schottky TTL.	3 ns at 4 mW	–	–
HC/HCT CMOS For information see previous chapter HCMOS PC74.			
AC/ACT CMOS For information see previous chapter ACL 74 FAMILY.			

TTL 74 SERIES SURVEY

N74 SERIES		STD	LS	S	F	ALS
ARITHMETIC ICs						
83	4–bit BCD adder	●			●	
83A	4–bit binary full adder (fast carry)		●			
180	8–bit odd/even parity generator/checker	●				
181	4–bit arithmetic logic unit	●	●	●	●	
182	look–ahead carry generator			●	●	
280	9–bit odd/even parity generator/checker			●		
280A	9–bit odd/even parity generator/checker				●	
280B	9–bit odd/even parity generator/checker				●	
283	4–bit full adder with fast carry		●		●	
381	4–bit arithmetic logic unit				●	
382	4–bit arithmetic logic unit				●	
385	quad serial adder/substractor				●	
582	4–bit BCD arithmetic logic unit				●	
583	4–bit BCD adder				●	
881	arithmetic logic unit/function generator				●	
882	32–bit look–ahead carry generator				●	
BUFFERS						
06	hex inverter buffer/driver (open collector)	●				
07	hex buffer/driver (open collector)	●				
16	hex inverter buffer/driver (open collector)	●				
17	hex buffer/driver (open collector)	●				
125	quad buffer (3–state)	●			●	
125A	quad buffer (3–state)		●			
126	quad buffer (3–state)	●			●	
126A	quad buffer (3–state)		●			
240	octal inverter buffer (3–state)		●	●	●	
240A	octal inverter buffer (3–state)					●
240A–1	octal inverter buffer (3–state)					●
241	octal buffer (3–state)		●	●	●	
241A	octal buffer (3–state)					●
241A–1	octal buffer (3–state)					●
244	octal buffer (3–state)		●	●	●	
244A	octal buffer (3–state)					●
244A–1	octal buffer (3–state)					●
365	hex buffer/driver (3–state)				●	
365A	hex buffer/driver (3–state)	●	●			
366	hex inverter buffer (3–state)				●	
366A	hex inverter buffer (3–state)	●	●			
367	hex buffer/driver (3–state)				●	
367A	hex buffer/driver (3–state)	●	●			
368	hex inverter buffer (3–state)				●	
368A	hex inverter buffer (3–state)	●	●			
455	octal buffer with parity generator checker				●	
456	octal buffer with parity generator checker				●	
540	octal buffer/line driver (3–state)		●		●	
541	octal non–inverting buffer/line driver (3–state)		●		●	
655	octal inverting buffer with parity generator checker				●	
655A	octal inverting buffer with parity generator checker				●	
656	octal buffer with parity generator checker				●	

N74 SERIES		STD	LS	S	F	ALS
BUFFERS (cont.)						
656A	octal buffer with parity generator checker				●	
827	10–bit buffer, non–inverting (3–state)				●	
828	10–bit buffer, inverting (3–state)				●	
1240	octal buffer (3–state); light load				●	
1241	octal buffer (3–state); light load				●	
1244	octal buffer (3–state)				●	
BUS ICs						
242	quad bus inverting transceiver (3–state)		●	●	●	
243	quad transceiver (3–state)		●	●	●	
245	octal bus transceiver (3–state)		●		●	
245A	octal bus transceiver (3–state)					●
245A–1	octal bus transceiver (3–state)					●
545	octal bus transceiver (3–state)				●	
620	octal bus transceiver (3–state)		●		●	
620A	octal bus transceiver (3–state)					●
620A–1	octal bus transceiver (3–state)					●
621	octal bus transceiver (open collector)		●		●	
622	octal bus transceiver (open collector)		●		●	
623	octal bus transceiver (3–state)		●		●	
623A	octal bus transceiver (3–state)					●
623A–1	octal bus transceiver (3–state)					●
640	octal bus transceiver, inverting (3–state)		●		●	
640–1	inverting octal bus transceiver (3–state)		●			
641	octal bus transceiver (open collector)		●		●	
641–1	octal bus transceiver (open collector)		●			
642	inverting octal bus transceiver (open collector)		●		●	
642–1	inverting octal bus transceiver (open collector)		●			
645	octal bus transceiver (3–state)		●			
645–1	octal bus transceiver (3–state)		●			
646	octal bus transceiver and register (3–state)				●	
647	octal bus transceiver and register (open collector)				●	
648	octal bus transceiver and register (3–state)				●	
649	octal bus transceiver and register (open collector)				●	
657	octal bus transceiver with parity generator checker				●	
1245	octal bus transceiver (3–state); light load				●	
COMPARATORS						
85	4–bit magnitude comparator	●	●	●	●	
521	8–bit identify comparator				●	
524	8–bit register comparator (open collector)				●	
COUNTERS						
90	4–bit decade ripple counter	●	●			
92	divide–by–twelve counter	●	●			
93	4–bit binary ripple counter	●	●			
160	synchronous BCD decade counter	●				
160A	synchronous BCD decade counter		●		●	

N74 SERIES		STD	LS	S	F	ALS
COUNTERS (cont.)						
161	synchronous 4–bit binary counter	●				
161A	synchronous 4–bit binary counter		●		●	
161B	synchronous 4–bit binary counter					●
162A	synchronous BCD decade counter		●		●	
163	synchronous 4–bit binary counter	●			●	
163A	synchronous 4–bit binary counter		●		●	
163B	synchronous 4–bit binary counter					●
168	synchronous BCD decade up/down counter			●	●	
168A	synchronous BCD decade up/down counter		●	●		
169	synchronous 4–bit binary up/down counter				●	
169A	synchronous 4–bit binary up/down counter		●	●		
190	presettable BCD/decade up/down counter	●			●	
191	presettable 4–bit binary up/down counter	●	●		●	●
192	presettable BCD/decade up/down counter	●	●		●	
193	presettable 4–bit binary up/down counter	●	●		●	●
197	presettable 4–bit binary ripple counter		●			
269	8–bit binary counter				●	
290	4–bit decade ripple counter		●			
293	4–bit binary ripple counter		●			
390	dual decade ripple counter		●			
393	dual 4–bit binary ripple counter		●		●	
490	dual BCD decade ripple counter		●			
568	BCD decade up/down synchronous counter (3–state)				●	
568A	BCD decade up/down synchronous counter (3–state)		●			
569	4–bit binary up/down synchronous counter (3–state)				●	
569A	4–bit binary up/down synchronous counter (3–state)		●			
579	8–bit up/down counter, common I/O (3–state)				●	
779	8–bit bidirectional binary counter (3–state)				●	
DECODERS						
42	BCD–to–decimal decoder (1–of–10)	●	●			
45	BCD–to–decimal decoder/driver (open collector)	●				
138	3–line to 8–line decoder/demultiplexer		●	●	●	●
139	dual 2–line to 4–line decoder/demultiplexer		●	●	●	●
145	BCD–to–decimal decoder/driver (open collector)	●				
154	4–line to 16–line decoder/demultiplexer	●	●		●	
155	dual 2–line to 4–line decoder/demultiplexer	●	●			
156	dual 2–line to 4–line decoder/demultiplexer (open collector)	●	●			
445	BCD–to–decimal decoder/driver (open collector)		●			
537	1–of–10 decoder (3–state)				●	
538	1–of–8 decoder (3–state)				●	
539	dual 1–of–4 decoder (3–state)				●	
547	octal decoder/multiplexer				●	
548	octal decoder/multiplexer				●	
DEMULTIPLEXERS						
138	3–line to 8–line decoder/demultiplexer					●
139	dual 2–line to 4–line decoder/demultiplexer					●

N74 SERIES		STD	LS	S	F	ALS
DRIVERS						
804	hex 2–input NAND driver				●	
805	hex 2–input NOR driver				●	
808	hex 2–input AND driver				●	
832	hex 2–input OR driver				●	
3037	quad 2–input NAND, 30 Ohm transmission line driver				●	
3038	quad 2–input NAND, 30 Ohm transmission line driver; open collector				●	
3040	dual 4–input NAND, 30 Ohm transmission line driver				●	
30240	octal inverting 30 Ohm transmission line driver; open collector				●	
30244	octal 30 Ohm transmission–line/backplane driver				●	
30245	octal transceiver/30 Ohm transmission line driver; open collector				●	
30640	octal transceiver, 30 Ohm transmission driver; inverting; open collector				●	
ENCODERS						
147	10–line to 4–line priority encoder	●				
148	8–line to 3–line priority encoder	●			●	
FLIP–FLOPS						
D–type						
74	dual D–type edge–triggered flip–flop	●		●	●	
74A	dual D–type edge–triggered flip–flop		●			●
173	quad D–type flip–flop (3–state)	●	●		●	
174	hex D–type flip–flop with reset	●	●	●	●	●
175	quad D–type edge–triggered flip–flop with reset	●	●	●	●	●
273	octal D–type flip–flop with reset		●	●	●	●
364	octal D–type flip–flop (3–state)		●			
373	octal transparent latch (3–state)		●	●	●	●
374	octal D–type flip–flop (3–state)		●	●	●	●
377	octal D–type flip–flop with clock enable		●		●	
378	hex D–type flip–flop with clock enable		●		●	
379	quad D flip–flop with enable				●	
534	octal D–type flip–flop (3–state)			●	●	
563	octal D latch (3–state) broadside pinout				●	●
564	octal D flip–flop (3–state) broadside pinout				●	●
573	octal D latch (3–state) broadside pinout				●	●
574	octal D flip–flop (3–state) broadside pinout				●	●
JK						
73	dual JK master–slave flip–flop	●	●			
76	dual JK master–slave flip–flop	●	●			
107	dual JK master–slave flip–flop	●	●			
109	dual JK positive–edge triggered flip–flop	●	●		●	
109A	dual JK positive–edge triggered flip–flop					●
112	dual JK negative–edge triggered flip–flop		●	●	●	
112A	dual JK negative–edge triggered flip–flop					●
113	dual JK positive–edge triggered flip–flop		●	●	●	
114	dual JK negative–edge triggered flip–flop				●	

N74 SERIES		STD	LS	S	F	ALS
GATES						
AND						
08	quad 2–input AND gate	●	●	●	●	●
09	quad 2–input AND gate (open collector)	—	●	—	—	—
11	triple 3–input AND gate	●	●	●	●	—
11A	triple 3–input AND gate	—	—	—	—	●
21	dual 4–input AND gate	●	●	—	—	—
50	expandable dual 2–wide 2–input AND–OR–invert gate	●	—	—	—	—
51	dual 2–wide 2–input AND–OR–invert gate	●	●	●	●	—
54	4–wide 2 and 3–input AND–OR–invert gate	—	●	—	—	—
64	4–2–3–2–input AND–OR–invert gate	—	—	●	●	—
Complex						
50	expandable dual 2–wide 2–input AND–OR–invert gate	●	—	—	—	—
51	dual 2–wide 2–input AND–OR–invert gate	●	●	●	●	—
54	4–wide 2 and 3–input AND–OR–invert gate	—	●	—	—	—
64	4–2–3–2–input AND–OR–invert gate	—	—	●	●	—
EXCLUSIVE–OR						
86	quad 2–input EXCLUSIVE–OR gate	●	●	●	●	●
135	quad EXCLUSIVE–OR/NOR gate	—	—	●	—	—
136	quad EXCLUSIVE–OR gate (open collector)	—	●	—	—	—
EXCLUSIVE–NOR						
135	quad EXCLUSIVE–OR/NOR gate	—	—	●	—	—
266	quad 2–input EXCLUSIVE–NOR gate (open collector)	—	●	—	—	—
Inverter						
50	expandable dual 2–wide 2–input AND–OR–invert gate	●	—	—	—	—
51	dual 2–wide 2–input AND–OR–invert gate	●	●	●	●	—
54	4–wide 2 and 3–input AND–OR–invert gate	—	●	—	—	—
64	4–2–3–2–input AND–OR–invert gate	—	—	●	●	—
NAND						
00	quad 2–input NAND gate	●	●	●	●	—
00A	quad 2–input NAND gate	—	—	—	—	●
01	quad 2–input NAND gate (open collector)	—	●	—	—	—
03	quad 2–input NAND gate (open collector)	—	—	●	—	—
10	triple 3–input NAND gate	●	●	●	●	—
10A	triple 3–input NAND gate	—	—	—	—	●
20	dual 4–input NAND gate	●	●	●	●	—
20A	dual 4–input NAND gate	—	—	—	—	●

N74 SERIES		STD	LS	S	F	ALS
GATES (cont.)						
NAND (cont.)						
26	quad 2–input NAND gate (open collector)	●	●			
30	8–input NAND gate	●	●		●	
30A	8–input NAND gate					●
37	quad 2–input NAND buffer	●	●	●	●	
38	quad 2–input NAND buffer (open collector)	●	●	●	●	
38A	quad 2–input NAND buffer (open collector)					●
39	quad 2–input NAND buffer (open collector)	●				
40	dual 4–input NAND buffer	●	●	●	●	
133	13–input NAND gate			●	●	
134	12–input NAND gate (3–state)			●		
140	dual 4–input NAND line driver (50 Ohm)			●		
NOR						
02	quad 2–input NOR gate	●	●	●	●	●
25	dual 4–input NOR gate with strobe	●				
27	triple 3–input NOR gate	●	●		●	●
28	quad 2–input NOR buffer	●				
33	quad 2–input NOR buffer (open collector)	●	●			
128	quad 2–input NOR buffer	●				
260	dual 5–input NOR gate		●	●	●	
OR						
32	quad 2–input OR gate	●	●	●	●	●
50	expandable dual 2–wide 2–input AND–OR–invert gate	●				
51	dual 2–wide 2–input AND–OR–invert gate	●	●	●	●	
54	4–wide 2 and 3–input AND–OR–invert gate		●			
64	4–2–3–2–input AND–OR–invert gate			●	●	
INVERTERS						
04	hex inverter	●	●	●	●	
04B	hex inverter					●
05	hex inverter (open collector)	●	●	●		
LATCHES						
75	quad bistable latch	●	●			
116	dual 4–bit transparent latch with reset	●				
256	dual 4–bit addressable latch		●		●	
259	8–bit addressable latch		●		●	
279	quadruple S–R latch	●				
363	octal transparent latch (3–state)		●			
375	quad transparent bistable latch		●			
412	multi–mode buffered latch; non–inverting **(3–state)**				●	
432	multi–mode buffered latch; inverting (3–state)				●	
533	inverting octal D–type latch (3–state)				●	
543	octal transparent bidirectional latch				●	
544	octal transparent bidirectional latch				●	
604	dual 8–bit latch (3–state)				●	
605	dual 8–bit latch (open collector)				●	

N74 SERIES		STD	LS	S	F	ALS
LATCHES (cont.)						
841	10–bit latch, non–inverting (3–state)				●	
842	10–bit latch, inverting (3–state)				●	
843	9–bit latch, non–inverting (3–state)				●	
844	9–bit latch, inverting (3–state)				●	
845	8–bit latch, non–inverting (3–state)				●	
846	8–bit latch, inverting (3–state)				●	
MEMORIES						
189	64–bit bipolar RAM (16x4)			●		
189A	64–bit bipolar RAM (16x4)				●	
301	256–bit bipolar RAM (256x1)		●	●		
MULTIPLEXERS						
150	16–line to 1–line multiplexer	●				
151	8–line to 1–line multiplexer	●	●	●	●	●
151A	8–line to 1–line multiplexer				●	
153	dual 4–line to 1–line multiplexer	●	●	●	●	●
157	quad 2–input data selector/multiplexer; non–inverting	●	●	●	●	●
157A	quad 2–input data selector/multiplexer; non–inverting				●	
158	quad 2–input data selector/multiplexer; inverting	●	●	●	●	●
158A	quad 2–input data selector/multiplexer; inverting				●	
251	8–line to 1–line multiplexer (3–state)		●	●	●	●
251A	8–line to 1–line multiplexer (3–state)		●		●	
253	dual 4–line to 1–line multiplexer (3–state)		●	●	●	●
257	quad 2–line to 1–line data selector/multiplexer (3–state)			●	●	●
257A	quad 2–line to 1–line data selector/multiplexer (3–state)		●		●	
258	quad 2–line to 1–line data selector/multiplexer (3–state)			●	●	●
258A	quad 2–line to 1–line data selector/multiplexer (3–state)		●		●	
352	dual 4–input multiplexer		●		●	
353	dual 4–input multiplexer (3–state)		●		●	
711	quintuple 2–input multiplexer				●	
712	quintuple 3–input multiplexer				●	
723	quad 3–input multiplexer				●	
725	quad 3–input multiplexer				●	
732	quad data multiplexer				●	
733	quad data multiplexer				●	
MULTIVIBRATORS						
Monostable						
121	monostable multivibrator	●				
123	dual retriggerable monostable multivibrator	●				
221	dual monostable multivibrator	●				

N74 SERIES		STD	LS	S	F	ALS
REGISTERS						
91A	8–bit shift register	●				
94	4–bit shift register	●				
95	4–bit shift register	●				
95B	4–bit left–right shift register		●			
96	5–bit shift register	●	●			
164	8–bit serial–in/parallel–out shift register	●	●		●	●
165	8–bit parallel–in/serial–out shift register	●			●	
166	8–bit serial/parallel–in/serial–out shift register	●			●	
170	4x4 register file (open collector)	●	●			
172	16–bit multiple port register file (3–state)			●		
194	4–bit bidirectional universal shift register	●		●	●	
194A	4–bit bidirectional universal shift register		●			
195	4–bit parallel access shift register	●		●	●	
195A	4–bit parallel access shift register		●			
198	8–bit bidirectional universal shift register				●	
199	8–bit parallel–access shift register	●			●	
225	FIFO			●	●	
295B	4–bit shift register (3–state)		●			
298	quad 2–port register	●	●		●	
299	octal shift/storage register (3–state)				●	
322	octal shift/storage register (3–state)				●	
323	octal shift/storage register (3–state)				●	
350	4–bit shifter (3–state)			●	●	
395	4–bit cascadable shift register (3–state)				●	
395A	4–bit cascadable shift register (3–state)		●		●	
398	quad 2–port register true				●	
399	quad 2–port register true				●	
595	8–bit shift register with output latch				●	
597	8–bit shift register with input latch				●	
598	8–bit shift register with input latch				●	
646	octal bus transceiver and register (3–state)				●	
647	octal bus transceiver and register (open collector)				●	
648	octal bus transceiver and register (3–state)				●	
649	octal bus transceiver and register (open collector)				●	
651	octal transceiver/register, inverting (3–state)				●	
652	octal transceiver/register, non–inverting (3–state)				●	
653	octal transceiver/register, inverting (open collector)				●	
654	octal transceiver/register, non–inverting (open collector)				●	
670	4x4 register file (3–state)		●		●	
673	16–bit serial–in, serial/parallel–out shift register (3–state)				●	
673A	16–bit serial–in, serial/parallel–out shift register (3–state)				●	
674	16–bit serial/parallel–in,serial out shift register (3–state)				●	
675	16–bit serial–in, serial/parallel–out shift register (3–state)				●	
676	16–bit serial/parallel–in,serial out				●	
821	10–bit register, non–inverting (3–state)				●	

N74 SERIES		STD	LS	S	F	ALS
REGISTERS (cont.)						
822	10–bit register, inverting (3–state)				●	
823	9–bit register, non–inverting (3–state)				●	
824	9–bit register, inverting (3–state)				●	
825	9–bit register, non–inverting (3–state)				●	
826	9–bit register, inverting (3–state)				●	
SCHMITT TRIGGERS						
13	dual 4–input NAND Schmitt trigger	●	●		●	
14	hex inverter Schmitt trigger	●	●		●	
132	quad 2–input NAND Schmitt trigger	●	●		●	
SELECTORS						
157	quad 2–input data selector/multiplexer; non–inverting	●	●	●	●	●
157A	quad 2–input data selector/multiplexer; non–inverting				●	
158	quad 2–input data selector/multiplexer; inverting	●	●	●	●	●
158A	quad 2–input data selector/multiplexer; inverting				●	
257	quad 2–line to 1–line data selector/multiplexer (3–state)			●	●	●
257A	quad 2–line to 1–line data selector/multiplexer (3–state)		●		●	
258	quad 2–line to 1–line data selector/multiplexer (3–state)			●	●	●
258A	quad 2–line to 1–line data selector/multiplexer (3–state)		●		●	
SPECIAL FUNCTIONS						
384	8–bit serial/parallel two's complement multiplier				●	
429	FIFO RAM controller (64K)		●			
630	memory error detector/corrector (3–state)				●	
631	memory error detector/corrector (open collector)				●	
764	dual port RAM controller		●		●	
764–1	DRAM dual–ported controller				●	
764A	DRAM dual ported controller				●	
765	dual port RAM controller without latch		●		●	
765–1	DRAM dual–ported controller without latch				●	
765A	DRAM dual ported controller without latch				●	
784	8–bit serial multiplier and adder substractor				●	
786	4–input asynchronous bus arbiter				●	
838	microprogram sequence controller				●	
1761	DRAM and interrupt vector controller				●	
1762	1 M–bit memory address controller				●	
1763	1 M–bit intelligent DRAM controller				●	
1764	1 M–bit DRAM dual–ported controller with latch				●	
1764–1	1 M–bit DRAM dual–ported controller with latch				●	
1765	1 M–bit DRAM dual–ported controller without latch				●	
1765–1	1 M–bit DRAM dual–ported controller without latch				●	
1801	bit stream manager (encoder/decoder)		●			
1802	bit stream manager (serializer/de–serializer)		●			

IC

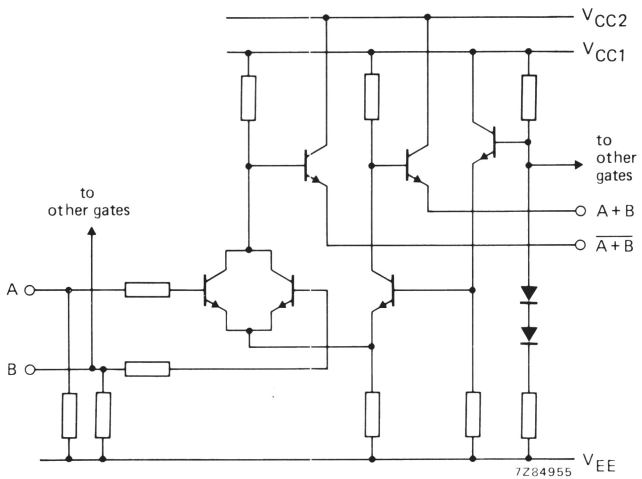
N74 SERIES		STD	LS	S	F	ALS
TRANCEIVERS						
242	quad bus inverting transceiver (3–state)		●	●	●	
243	quad transceiver (3–state)		●	●	●	
245	octal bus transceiver (3–state)		●		●	
545	octal bus transceiver (3–state)				●	
550	octal registered transceiver (AMD2950)				●	
551	octal registered transceiver (AMD2951)				●	
552	octal registered transceiver with status flags				●	
588	GPIB compatible octal transceiver				●	
620	octal bus transceiver (3–state)		●		●	
620A	octal bus transceiver (3–state)					●
620A–1	octal bus transceiver (3–state)					●
621	octal bus transceiver (open collector)		●		●	
622	octal bus transceiver (open collector)		●		●	
623	octal bus transceiver (3–state)		●		●	
623A	octal bus transceiver (3–state)					●
623A–1	octal bus transceiver (3–state)					●
640	octal bus transceiver, inverting (3–state)		●		●	
640–1	inverting octal bus transceiver (3–state)		●			
641	octal bus transceiver (open collector)		●		●	
641–1	octal bus transceiver (open collector)		●			
642	inverting octal bus transceiver (open collector)		●		●	
642–1	inverting octal bus transceiver (open collector)		●			
645	octal bus transceiver (3–state)		●			
645–1	octal bus transceiver (3–state)		●			
646	octal bus transceiver and register (3–state)				●	
647	octal bus transceiver and register (open collector)				●	
648	octal bus transceiver and register (3–state)				●	
649	octal bus transceiver and register (open collector)				●	
651	octal transceiver/register, inverting (3–state)				●	
652	octal transceiver/register, non–inverting (3–state)				●	
653	octal transceiver/register, inverting (open collector)				●	
654	octal transceiver/register, non–inverting (open collector)				●	
657	octal bus transceiver with parity generator checker				●	
861	10–bit transceiver, non–inverting				●	
862	10–bit transceiver, inverting				●	
863	9–bit transceiver, non–inverting (3–state)				●	
864	9–bit transceiver, inverting (3–state)				●	
1242	quad transceiver; inverting (3–state) light load				●	
1243	quad transceiver (3–state); light load				●	
2952	8–bit transceiver; non–inverting (3–state)				●	
2953	8–bit transceiver; inverting (3–state)				●	
30245	octal transceiver/30 Ohm transmission line driver; open collector				●	
30640	octal transceiver, 30 Ohm transmission driver; inverting; open collector				●	

IC

ECL 10 000 FAMILY SPECIFICATIONS

The 10K family of ECL silicon monolithic integrated circuits is designed for high speed central processors and digital communication systems.
With 2 ns typical propagation delay and only 25 mW power dissipation per gate, this family offers an excellent speed–power product and therefore is recommended for large high–speed system design.

Basic gate circuit



Family ratings

Limiting values in accordance with the Absolute Maximum System (IEC134)

Supply voltage (DC)	V_{EE}	max. −8.0	V
Input voltage range	V_I	0 to V_{EE}	
Output current	I_O	max. 50	mA
Storage temperature range	T_{stg}	−55 to +150	°C

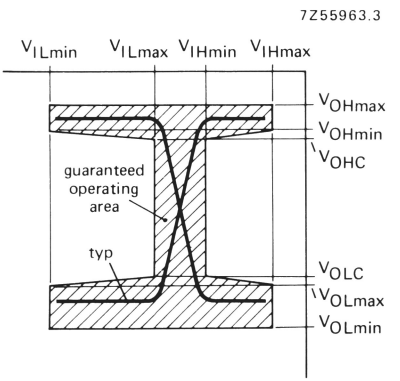
DC family characteristics

V_{CC} = ground; V_{EE} = −5.2 V; R_L = 50 Ohm to −2 V

Each 10K circuit has been designed to meet the DC specifications shown in the test table below, after thermal equilibrium has been established.
The circuit is in a test socket or mounted on a printed–circuit board and transverse air flow > 2.5 m/s is maintained.
Test values are given in the table and defined in the figure.

Test table

T_{amb}	−30	+25	+85 °C	unit
V_{IHA}	−890	−810	−700	mV
V_{IHB}	−1205	−1105	−1035	mV
V_{ILA}	−1500	−1475	−1440	mV
V_{ILB}	−1890	−1850	−1825	mV



parameter	symbol	T_{amb} −30 °C	T_{amb} +25 °C	T_{amb} +75 °C	unit
Output voltage HIGH	V_{OHA} V_{OHB}	−890 −1060	−810 −960	−700 −890	mV mV
Output voltage LOW	V_{OLA} V_{OLB}	−1675 −1890	−1650 −1850	−1615 −1825	mV mV
Output threshold voltage HIGH	V_{OHC}	−1080	−980	−910	mV
Output threshold voltage LOW	V_{OLC}	−1655	−1630	−1595	mV

ECL 10 000 FAMILY SURVEY

Type numbers have a suffix which signifies the type of package:
N = plastic DIL; F = ceramic (cerdip) DIL

AMPLIFIERS

10216	triple differential amplifier

ARITHMETIC ICs

10160	12–bit parity checker/generator
10179	look–ahead carry block
10181	4–bit arithmetic logic unit

BUFFERS

10188	hex buffer (non–inverting) with enable

BUS ICs

10123	triple bus driver (4–3–3–input; output NOR)
10192	quadruple current–mode bus driver

COUNTERS

10136	universal hexadecimal counter
10137	universal decade counter

DECODERS

10161	3–bit decoder with two enable inputs (1 of 8 lines LOW)
10162	3–bit decoder with two enable inputs (1 of 8 lines HIGH)
10171	dual 2–bit decoder (1 of 4 lines LOW)
10172	dual 2–bit decoder (1 of 4 lines HIGH)

DRIVERS

10110	dual 3–input/3–output OR gate (line driver)
10111	dual 3–input/3–output NOR gate (line driver)
10210	high speed dual 3–input/3–output OR gate
10211	high speed dual 3–input/3–output NOR gate

ENCODERS

10165	8–input priority encoder

FLIP–FLOPS

D–type

10131	dual D–type master–slave flip–flop
10176	hex D–type master–slave flip–flop
10231	high speed dual D–type master–slave flip–flop

JK

10135	dual JK master–slave flip–flop

GATES

AND

10104	quadruple 2–input, 3 AND and 1 AND/NAND gate
10108	dual 3–input AND/NAND gate

Complex

10117	dual 2–wide 2–3–input OR–AND/OR–AND–INVERT gate
10118	dual 2–wide 3–input OR–AND gate
10119	4–wide 4–3–3–3–input OR–AND gate

EXCLUSIVE–OR

10107	triple 2–input EXCLUSIVE–OR/EXCLUSIVE–NOR gate
10113	quadruple EXCLUSIVE–OR gate (with enable)

EXCLUSIVE–NOR

10107	triple 2–input EXCLUSIVE–OR/EXCLUSIVE–NOR gate

NAND

10104	quadruple 2–input, 3 AND and 1 AND/NAND gate
10108	dual 3–input AND/NAND gate

NOR

10100	quadruple 3–input NOR gate (1 input common)
10101	quadruple 2–input OR/NOR gate (1 input common)
10102	quadruple 2–input, 3 NOR and 1 OR/NOR gate
10103	quadruple 2–input, 3 OR and 1 OR/NOR gate
10105	triple 2–3–2 input OR/NOR gate
10106	triple 4–3–3 input NOR gate
10109	dual 4–5 input OR/NOR gate

OR

10101	quadruple 2–input OR/NOR gate (1 input common)
10102	quadruple 2–input, 3 NOR and 1 OR/NOR gate
10103	quadruple 2–input, 3 OR and 1 OR/NOR gate
10105	triple 2–3–2 input OR/NOR gate
10109	dual 4–5 input OR/NOR gate

INVERTERS

10189	hex inverter with enable

LATCHES

10130	dual D–type latch
10133	quadruple latch with D–type inputs and enable outputs
10134	dual 2–input multiplexer with clocked D–type latches
10175	quintuple D–type latch with common reset and two wired–OR common clock inputs

MULTIPLEXERS

10134	dual 2–input multiplexer with clocked D–type latches
10158	quadruple 2–to–1 multiplexer (non–inverting)
10159	quadruple 2–to–1 multiplexer (inverting)
10164	8–input multiplexer with enable input
10173	quadruple 2–input multiplexer with latched outputs
10174	dual 4–to–1 multiplexer (with enable)

REGISTERS

10141	4–bit universal shift register

TRANSLATORS

10124	quadruple TTL to ECL translator
10125	quadruple ECL to TTL translator

MEMORIES
PROM

10149	1024–bit, 4–bits per word PROM
10149A	1024–bit, 4–bits per word PROM

RAM

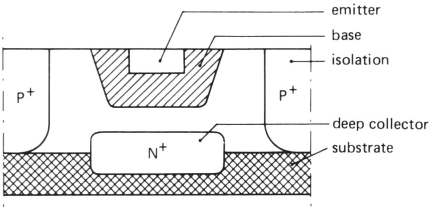
10422B	256x4–bit RAM
10422C	256x4–bit RAM

RECEIVERS

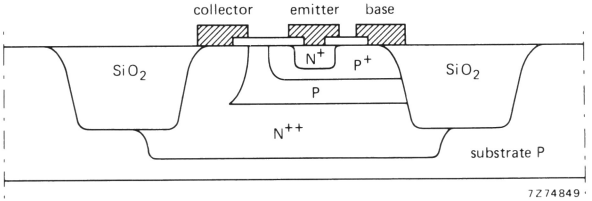
10114	triple line receiver (output OR/NOR)
10115	quadruple line receiver (output OR)
10116	triple line receiver (output OR/NOR)

ECL 100 000 FAMILY SPECIFICATIONS

To satisfy the needs of new generations of computer and telecommunication systems in standard and LSI circuit design, a new technological process has been developed using oxide lateral isolation. The process is called SUBILO and permits the manufacture of integrated circuits with ultra–high speeds and high integration density.
Instead of conventional planar junction isolation technology, SUBILO uses a process that results in a considerable reduction in transistor area and an increased integration density. By using an increase in silicon oxide instead of isolation diffusion 'p', and removing the part between the emitter and isolation oxide, SUBILO technology results in a further reduction of transistor area. At the same time, the collector–base capacitance decreases, which is an important improvement in the dynamic performance of the transistor.



Junction–isolated PLANAR technique used for ECL 10 000.



The SUBILO process uses silicon oxide between devices instead of the p^+ regions used in the planar process.

Planar process in comparison with SUBILO technology

	planar	SUBILO	unit
Transistor area	3000	500	μm^2
Transition frequency	1.5	4.5	GHz
Application	ECL 10 000	ECL 100 000	

Family ratings

Limiting values in accordance with the Absolute Maximum System (IEC 134)

Supply voltage (DC):	V_{EE} max. -7 V
Input voltage range:	$V_I = 0$ to V_{EE} if $V_{EE} > -6$ V; 0 to -6 V $> V_{EE} > -7$ V
Output current:	I_O max. 55 mA
Storage temperature range:	T_{stg} -55 to $+150$ °C

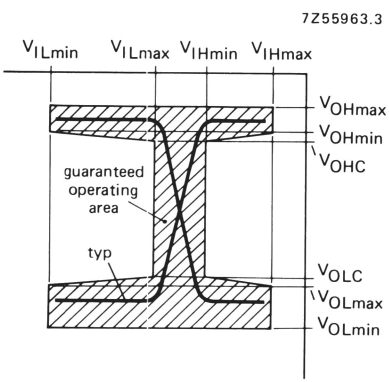
DC family characteristics

V_{CC} = ground; V_{EE} = −4.5 V; T_{amb} = 0 to +85 °C; R_L = 50 Ohm to −2 V.

Each 100K circuit has been designed to meet the DC specifications shown in the test table, after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed–circuit and transverse air flow > 2.5 m/s is maintained.
Test values are given in the table and defined in the figure.

Test table

parameter	symbol	value	unit
Input voltage HIGH	V_{IHA} V_{IHB}	−880 −1165	mV mV
Input voltage LOW	V_{ILA} V_{ILB}	−1475 −1810	mV mV
Output voltage HIGH	V_{OHA} V_{OHB}	−880 −1025	mV mV
Output voltage LOW	V_{OLA} V_{OLB}	−1620 −1810	mV mV
Output threshold voltage HIGH LOW	V_{OHC} V_{OLC}	−1035 −1610	mV mV



ECL 100 000 FAMILY SURVEY

ARITHMETIC ICs

100160	dual 9–bit parity generator/8–bit comparator
100179	high speed carry look ahead generator
100180	fast 6–bit adder
100181	4–bit ALU binary/decimal

BUFFERS

100122	9–bit buffer gate

COMPARATORS

100166	9–bit comparator

DECODERS

100170	universal demultiplexer/decoder

DEMULTIPLEXERS

100170	universal demultiplexer/decoder

DRIVERS

100112	quadruple double fan–out OR/NOR gate
100113	quadruple fan–out OR/NOR gate
100123	hex bus driver
100126	9–bit buffer gate

ENCODERS

100165	universal priority encoder

FLIP–FLOPS

D–type

100131	triple D master–slave flip–flop
100150	hex D latch flip–flop
100151	hex D master–slave flip–flop
100231	triple D master–slave flip–flop (high speed version of 100131)

GATES

Complex

100117	triple 1–2–2 input OR/AND–OR/NAND gate
100118	2–4–4–4–5 input OR/AND–OR/NAND gate

EXCLUSIVE–OR

100107	quintuple EXCLUSIVE OR/NOR gate with compare

EXCLUSIVE–NOR

100107	quintuple EXCLUSIVE OR/NOR gate with compare

GATES (cont.)

NOR

100101	triple 5–input OR/NOR gate
100102	quintuple 2–input OR/NOR gate with common enable

OR

100101	triple 5–input OR/NOR gate
100102	quintuple 2–input OR/NOR gate with common enable

LATCHES

100155	quadruple 2–way multiplexer latch
100175	5–bit 100K to 10K interface with latch

MULTIPLEXERS

100155	quadruple 2–way multiplexer latch
100163	dual 8–bit multiplexer
100164	16–input multiplexer
100171	triple bit 4–way multiplexer

REGISTERS

100136	multipurpose counting register
100141	8–bit universal shift register

SPECIAL FUNCTIONS

100158	8–bit shift matrix

TRANSLATORS

100175	5–bit 100K to 10K interface with latch
100255	5–bit ECL/TTL interface

MEMORIES

PROM

100149	1024–bit, 4–bits per word PROM
100149A	1024–bit, 4–bits per word PROM

RAM

100422B	256x4–bit RAM
100422C	256x4–bit RAM
100470A	4096x1–bit RAM
100474A	1024x4–bit RAM

RECEIVERS

100114	quintuple differential line receiver

ARITHMETIC ICs

8262	8–bit parity generator and checker

BUFFERS

N8T95	high–speed hex buffer (3–state)
N8T96	high–speed hex inverter (3–state)
N8T97	high speed hex buffer (3–state)
N8T98	high–speed hex inverter (3–state)

BUS ICs

N8T09	quad 3–state bus driver
N8T26A	quad inverting bus transceiver (3–state)
N8T28	quad non–inverting bus transceiver (3–state)
N8T34	quad bus transceiver (3–state)
N8T37	hex bus receiver/Schmitt trigger
N8T38	quad bus transceiver (open collector)
N8T126	quad bus driver/receiver (inverting)
N8T128	quad bus driver/receiver (non–inverting)
N8T129	quad bus driver/receiver (non–inverting)
N8T380	quad bus receiver with hysteresis/Schmitt trigger

COMPARATORS

9324	5–bit comparator

DRIVERS

N8T13	dual low impedance line driver
N8T15	dual communications line driver
N8T16	dual communications line receiver
N8T23	dual IBM 360/370 line driver

FLIP–FLOPS

D–type

N8TS808	octal D–type flip–flop (3–state)
N8T10	quad 3–state D–type bus latch

GATES

EXCLUSIVE–NOR

8242	quad EXCLUSIVE–NOR gate

NAND

8881	quad 2–input NAND (open collector)

LATCHES

N8TS805	octal transparent latch (3–state)
N8TS807	octal transparent latch (3–state)
N8T3404	high–speed 6–bit latch
9334	8–bit addressable latch

MULTIPLEXERS

8234	2–input, 4–bit digital multiplexer
8266	2–input, 4–bit digital multiplexer
9309	dual 4–input multiplexer

MULTIVIBRATORS

Monostable

9602	dual monostable multivibrator

One–shot

N8T20	bidirectional one shot multivibrator

RECEIVERS

N8T24	triple IBM 360/370 line receiver

REGISTERS

8271	4–bit shift register
8273	10–bit serial–in/parallel–out shift register
8274	10–bit parallel–in/serial–out shift register

SPECIAL FUNCTIONS

N8T31	transparent I/O port; 8–bit bidirectional
N8T32	addressable I/O port; 8–bit bidirectional, synchronous
N8T36	addressable I/O port; 8–bit bidirectional, asynchronous
23 101	high level 16–to–8 connection matrix
231 101	high level 16–to–8 connection matrix
3001	microprogram control unit
3002	central processing element

TIMING ICs

N8T20	bidirectional one shot multivibrator

TRANCEIVERS

N8T26A	quad inverting bus transceiver (3–state)
N8T28	quad non–inverting bus transceiver (3–state)
N8T34	quad bus transceiver (3–state)
N8T38	quad bus transceiver (open collector)
N8T125	octal transceiver (inverting)
N8T245	octal transceiver
N8X41	auto–directional bus transceiver

DIGITAL SIGNAL PROCESSORS

PCB5010	single–chip digital signal processor; 8 MHz; on–chip program memory 987x40–bit ROM (mask programmable), 32x40–bit RAM (loaded via bus), 5x40–bit ROM (fixed load–RAM program); on–chip data memory 512x16–bit ROM (mask programmable), 2x(128x16–bit) static RAM
PCB5011	single–chip digital signal processor; 8 MHz; ROMless bond–out version; external program memory 1024x40–bit (expandable to 64Kx40–bit); external data memory 512x16–bit (read and write possible) plus 2x(128x16–bit) on–chip static RAM
PCF5010	single–chip digital signal processor; 8 MHz; on–chip program memory 987x40–bit ROM (mask programmable), 32x40–bit RAM (loaded via bus), 5x40–bit ROM (fixed load–RAM program); on–chip data memory 512x16–bit ROM (mask programmable), 2x(128x16–bit) static RAM
PCF5011	single–chip digital signal processor; 8 MHz; ROMless bond–out version; external program memory 1024x40–bit (expandable to 64Kx40–bit); external data memory 512x16–bit (read and write possible); plus 2x(128x16–bit) on–chip static RAM

EPROM

27C64A	65,536–bit CMOS EPROM (8Kx8)
27C256	262,144–bit CMOS EPROM (32Kx8)
27HC641	65,536–bit CMOS EPROM (8Kx8)

EEPROM

PCF8582A	256x8–bit EEPROM; I^2C bus

PROM

82HS187	8192–bit bipolar PROM (1024x8)
82HS187A	8192–bit bipolar PROM (1024x8)
82HS189	8192–bit bipolar PROM (1024x8)
82HS189A	8192–bit bipolar PROM (1024x8)
82HS191	16,384–bit bipolar PROM (2048x8)
82HS195	16,384–bit bipolar PROM (4096x4)
82HS195A	16,384–bit bipolar PROM (4096x4)
82HS195B	16,384–bit bipolar PROM (4096x4)
82HS321	32,768–bit bipolar PROM (4096x8)
82HS321A	32,768–bit bipolar PROM (4096x8)
82HS321B	32,768–bit bipolar PROM (4096x8)
82HS641	65,536–bit bipolar PROM (8192x8)
82HS641A	65,536–bit bipolar PROM (8192x8)
82HS641B	65,536–bit bipolar PROM (8192x8)
82HS1281	131,072–bit bipolar PROM (16384x8)
82LS135	2048–bit bipolar PROM (256x8)
82S23	256–bit bipolar PROM (32x8)
82S23A	256–bit bipolar PROM (32x8)
82S115	4096–bit bipolar PROM (512x8)
82S123	256–bit bipolar PROM (32x8)
82S123A	256–bit bipolar PROM (32x8)
82S126	1024–bit bipolar PROM (256x4)
82S126A	1024–bit bipolar PROM (256x4)
82S129	1024–bit bipolar PROM (256x4)
82S129A	1024–bit bipolar PROM (256x4)
82S130	2048–bit bipolar PROM (512x4)
82S130A	2048–bit bipolar PROM (512x4)
82S131	2048–bit bipolar PROM (512x4)
82S131A	2048–bit bipolar PROM (512x4)
82S135	2048–bit bipolar PROM (256x8)
82S137	4096–bit bipolar PROM (1024x4)
82S137A	4096–bit bipolar PROM (1024x4)
82S137B	4096–bit bipolar PROM (1024x4)
82S137C	4096–bit bipolar PROM (1024x4)
82S141	4096–bit bipolar PROM (512x8)
82S141A	4096–bit bipolar PROM (512x8)
82S147	4096–bit bipolar PROM (512x8)
82S147A	4096–bit bipolar PROM (512x8)
82S147B	4096–bit bipolar PROM (512x8)
82S181	8192–bit bipolar PROM (1024x8)
82S181A	8192–bit bipolar PROM (1024x8)
82S181C	8192–bit bipolar PROM (1024x8)
82S183	8192–bit bipolar PROM (1024x8)
82S185	8192–bit bipolar PROM (2048x4)
82S185A	8192–bit bipolar PROM (2048x4)
82S185C	8192–bit bipolar PROM (2048x4)
82S191	16,384–bit bipolar PROM (2048x8)
82S191A	16,384–bit bipolar PROM (2048x8)
82S191C	16,384–bit bipolar PROM (2048x8)

PROM (cont.)

82US23	256–bit bipolar PROM (32x8)
82US123	256–bit bipolar PROM (32x8)

RAM

FCB61C61–35	65536x1–bit high–speed CMOS static RAM; access time 35 ns
FCB61C61–45	65536x1–bit high–speed CMOS static RAM; access time 45 ns
FCB61C61–55	65536x1–bit high–speed CMOS static RAM; access time 55 ns
FCB61C61L–35	65536x1–bit high–speed CMOS low–power static RAM; access time 35 ns
FCB61C61L–45	65536x1–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C61L–55	65536x1–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C62–35	16384x4–bit high–speed CMOS static RAM; access time 35 ns
FCB61C62–45	16384x4–bit high–speed CMOS static RAM; access time 45 ns
FCB61C62–55	16384x4–bit high–speed CMOS static RAM; access time 55 ns
FCB61C62L–35	16384x4–bit high–speed CMOS low–power static RAM; access time 35 ns
FCB61C62L–45	16384x4–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C62L–55	16384x4–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C65–45	8192x8–bit high–speed CMOS static RAM; access time 45 ns
FCB61C65–55	8192x8–bit high–speed CMOS static RAM; access time 55 ns
FCB61C65–70	8192x8–bit high–speed CMOS static RAM; access time 70 ns
FCB61C65L–45	8192x8–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C65L–55	8192x8–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C65L–70	8192x8–bit high–speed CMOS low–power static RAM; access time 70 ns
N8X350	256x8–bit bipolar RAM
PCD5101	256x4–bit static RAM
PCD5114	1024x4–bit static RAM
PCF8570	256x8–bit static RAM; I^2C bus
PCF8570C	256x8–bit static RAM; I^2C bus; different slave address
PCF8571	128x8–bit static RAM; I^2C bus
PCF8583	clock calendar with 256x8–bit static RAM; I^2C bus
82LS16	256–bit bipolar RAM (256x1)
82S09	576–bit bipolar RAM (64x9)
82S09A	576–bit bipolar RAM (64x9)
82S16	256–bit bipolar RAM (256x1)
82S19	576–bit bipolar RAM (64x9)
82S25	64–bit bipolar RAM (16x4)
82S212	2304–bit bipolar RAM (256x9)
82S212A	2304–bit bipolar RAM (256x9)
3101A	64–bit bipolar RAM (16x4)

BIPOLAR 8–BIT

N8T31	transparent I/O port; 8–bit bidirectional
N8T32	addressable I/O port; 8–bit bidirectional, synchronous
N8T36	addressable I/O port; 8–bit bidirectional, asynchronous
N8X01A	CRC generator/checker
N8X02A	control store sequencer
N8X41	auto–directional bus transceiver
N8X60	FIFO RAM controller (4K RAM)
N8X305	microcontroller; 200 ns cycle time
N8X310	interrupt controller
N8X320	bus interface array; 2–port RAM for 8/16–bit mailbox interface
N8X350	256x8–bit bipolar RAM
N8X371	transparent I/O port; 8–bit bidirectional
N8X372	addressable I/O port; 8–bit bidirectional, synchronous
N8X376	addressable I/O port; 8–bit bidirectional, asynchronous
N8X400AS1	cross–assembler fortress for N8X401 (written in Pascal for IBM PC)
N8X400KT1	development board for N8X401
N8X401	8–bit bipolar microcontroller
N8X450	256–bit bipolar RAM (32x8)
2960	error detection/correction unit
2964B	dynamic memory controller
9401	CRC generator/checker
9403	64–bit FIFO buffer memory (16x4)

CMOS 8–BIT

PCA80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 12 MHz; –40 to + 110 °C
PCA80C39	microcontroller; 128x8 RAM; 1.0 to 15 MHz; –40 to + 110 °C
PCA80C49	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 15 MHz; –40 to + 110 °C
PCA80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 12 MHz; –40 to + 110 °C
PCA80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I^2C bus; 1.2 to 12 MHz; –40 to + 110 °C
PCA80C562	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 8–bit ADC; 1.2 to 12 MHz; –40 to + 110 °C
PCA80C652	microcontroller; 256x8 RAM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; –40 to + 110 °C
PCA83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I^2C bus; 1.2 to 12 MHz; –40 to + 110 °C

CMOS 8–BIT (cont.)

PCA83C562	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 8–bit ADC; 1.2 to 12 MHz; –40 to +110 °C
PCA83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; –40 to +110 °C
PCB80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 16 MHz; 0 to +70 °C
PCB80C39	microcontroller; 128x8 RAM; 1.0 to 15 MHz; 0 to +70 °C
PCB80C49	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 15 MHz; 0 to +70 °C
PCB80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 16 MHz; 0 to +70 °C
PCB80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I^2C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C562	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 8–bit ADC; 1.2 to 12 MHz; 0 to +70 °C
PCB80C652	microcontroller; 256x8 RAM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C851	microcontroller; 128x8 RAM; 256x8 EEPROM; 1.2 to 12 MHz; 0 to +70 °C
PCB83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I^2C bus; 1.2 to 12 MHZ; 0 to +70 °C
PCB83C562	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 8–bit ADC; 1.2 to 12 MHz; 0 to +70 °C
PCB83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C851	microcontroller; 128x8 RAM; 4Kx8 ROM; 256x8 EEPROM; 1.2 to 12 MHz; 0 to +70 °C
PCD3315C	microcontroller for telephone sets; 160x8 RAM; 1.5Kx8 ROM; 20 I/O lines; I^2C bus
PCD3343	microcontroller for telephone sets; 224x8 RAM; 3Kx8 ROM; 20 I/O lines; I^2C bus
PCD3348	microcontroller for telephone sets; 256x8 RAM; 8Kx8 ROM; 20 I/O lines; I^2C bus
PCF80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 12 MHz; –40 to + 85 °C
PCF80C39	microcontroller; 128x8 RAM; 1.0 to 15 MHz; –40 to +85 °C
PCF80C49	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 15 MHz; –40 to +85 °C
PCF80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 12 MHz; –40 to +85 °C

CMOS 8–BIT (cont.)

PCF80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF80C562	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 8–bit ADC; 1.2 to 12 MHz; –40 to +85 °C
PCF80C652	microcontroller; 256x8 RAM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF80C851	microcontroller; 128x8 RAM; 256x8 EEPROM; 1.2 to 12 MHz; –40 to +85 °C
PCF83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C562	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 8–bit ADC; 1.2 to 12 MHz –40 to +85 °C
PCF83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C851	microcontroller; 128x8 RAM; 4Kx8 ROM; 256x8 EEPROM; 1.2 to 12 MHz; –40 to +85 °C
PCF84C00	microcontroller; 256x8 RAM; bond–out version PCF84CXX family; I²C bus
PCF84C12	low cost microcontroller; 64x8 RAM; 1Kx8 ROM
PCF84C21	microcontroller; 64x8 RAM; 2Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C22	low cost microcontroller; 64x8 RAM; 2Kx8 ROM
PCF84C41	microcontroller; 128x8 RAM; 4Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C42	low cost microcontroller; 64x8 RAM; 4K8 ROM
PCF84C81	microcontroller; 256x8 RAM; 8Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C85	microcontroller; 256x8 RAM; 8Kx8 ROM; 32 I/O; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C121	microcontroller; 256x8 RAM; 1Kx8 ROM; 8x8 EEPROM
PCF84C230	microcontroller; 64x8 RAM; 2Kx8 ROM; with LCD driver
PCF84C270	microcontroller with keyboard scanner; 128x8 RAM; 2Kx8 ROM; for capacitive matrix–type keyboards
PCF84C271	microcontroller with keyboard scanner; 128x8 RAM; 2Kx8 ROM; for mechanical matrix–type keyboards
PCF84C430	microcontroller with LCD driver; 128x8 RAM; 4Kx8 ROM; I²C bus
PCF84C470	microcontroller with keyboard scanner; 128x8 RAM; 4Kx8 ROM; for capacitive matrix–type keyboards
PCF84C633	microcontroller; 256x8 RAM; 8Kx8 ROM; plus 16–bit timers; LCD driver
PCF84C853	microcontroller; 256x8 RAM; 8Kx8 ROM; plus 16–bit timers
SC80C451	I/O expanded microcontroller; 128x8 RAM; 0.5 to 16 MHz; –40 to +85 °C

CMOS 8–BIT (cont.)

SC83C451	I/O expanded microcontroller; 128x8 RAM; 4Kx8 ROM; 0.5 to 16 MHz; –40 to +85 °C
SC83C751	microcontroller; 64x8 RAM; 2Kx8 ROM; 16–bit timer/counter; 2x8–bit I/O; I²C bus; 0.5 to 16 MHz
SC87C51	microcontroller; 128x8 RAM; 4Kx8 EPROM; 0.5 to 12 MHz
SC87C451	I/O expanded microcontroller; 128x8 RAM; 4Kx8 EPROM; 0.5 to 16 MHz
SC87C751	microcontroller; 64x8 RAM; 2Kx8 EPROM; 16–bit timer/counter; 2x8–bit I/O; I²C bus; 0.5 to 16 MHz

NMOS 8–BIT

MAB8031AH–2	microcontroller; 128x8 RAM; 3.5 to 15 MHz; 0 to +70 °C
MAB8032AH	microcontroller; 256x8 RAM; 3.5 to 12 MHz; 0 to +70 °C
MAB8035HL	microcontroller; 64x8 RAM; 1.0 to 11 MHz; 0 to +70 °C
MAB8039HL	microcontroller; 128x8 RAM; 1.0 to 11 MHz; 0 to +70 °C
MAB8040HL	microcontroller; 256x8 RAM; 1.0 to 11 MHz; 0 to +70 °C
MAB8048H	microcontroller; 64x8 RAM; 1Kx8 ROM; 1.0 to 11 MHz; 0 to +70 °C
MAB8049H	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 11 MHz; 0 to +70 °C
MAB8050H	microcontroller; 256x8 RAM; 4Kx8 ROM; 1.0 to 11 MHz; 0 to +70 °C
MAB8051AH–2	microcontroller; 128x8 RAM; 4Kx8 ROM; 3.5 to 12 MHz; 0 to +70 °C
MAB8052AH	microcontroller; 256x8 RAM; 8Kx8 ROM; 3.5 to 12 MHz; 0 to +70 °C
MAB8401	microcontroller; 128x8 RAM; bond–out version for MAB84XX family plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAF80A31AH–2	microcontroller; 128x8 RAM; 3.5 to 12 MHz; –40 to +110 °C

NMOS 8–BIT (cont.)

MAF80A32AH	microcontroller; 256x8 RAM; 3.5 to 10 MHz; –40 to +110 °C
MAF80A35HL	microcontroller; 64x8 RAM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A39HL	microcontroller; 128x8 RAM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A40HL	microcontroller; 256x8 RAM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A48H	microcontroller; 64x8 RAM; 1Kx8 ROM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A49H	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A50H	microcontroller; 256x8 RAM; 4Kx8 ROM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A51AH–2	microcontroller; 128x8 RAM; 4Kx8 ROM; 3.5 to 12 MHz; –40 to +110 °C
MAF80A52AH	microcontroller; 256x8 RAM; 8Kx8 ROM; 3.5 to 10 MHz; –40 to +110 °C
MAF84A11	microcontroller; 64x8 RAM; 1Kx8 ROM; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A21	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A22	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A41	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A42	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A61	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF8031AH–2	microcontroller; 128x8 RAM; 3.5 to 12 MHz; –40 to +85 °C
MAF8032AH	microcontroller; 256x8 RAM; 3.5 to 10 MHz; –40 to +85 °C
MAF8035HL	microcontroller; 64x8 RAM; 1.0 to 11 MHz; –40 to +85 °C
MAF8039HL	microcontroller; 128x8 RAM; 1.0 to 11 MHz; –40 to +85 °C
MAF8040HL	microcontroller; 256x8 RAM; 1.0 to 11 MHz; –40 to +85 °C
MAF8048H	microcontroller; 64x8 RAM; 1Kx8 ROM; 1.0 to 11 MHz; –40 to +85 °C
MAF8049H	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 11 MHz; –40 to +85 °C
MAF8050H	microcontroller; 256x8 RAM; 4Kx8 ROM; 1.0 to 11 MHz; –40 to +85 °C
MAF8051AH–2	microcontroller; 128x8 RAM; 4Kx8 ROM; 3.5 to 12 MHz; –40 to +85 °C
MAF8052AH	microcontroller; 256x8 RAM; 8Kx8 ROM; 3.5 to 10 MHz; –40 to +85 °C
MAF8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; –40 to +85 °C

NMOS 8–BIT (cont.)

MAF8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; –40 to +85 °C

PERIPHERAL ICs

NE587	LED decoder/driver
NE589	LED decoder/driver
NE5018	8–bit microprocessor–compatible DAC
NE5019	8–bit microprocessor–compatible DAC
NE5020	10–bit microprocessor–compatible DAC
NE5118	8–bit microprocessor–compatible DAC with current output
NE5119	8–bit microprocessor–compatible DAC with current output
OM8000	standard Euro–card demo for voice synthesizer MEA8000
OM8200	speech demonstration board (PCF8200)
OM8209	update package for OM8010
OM8210	speech analysis/editing system (PCF8200)
PCF2100	LCD duplex driver; 40 segments
PCF2110	LCD duplex driver; 60 segments and 2 LEDs
PCF2111	LCD duplex driver; 64 segments
PCF2112	LCD driver; 32 segments
PCF2201	LCD flat panel row/column driver
PCF8200	voice synthesizer (CMOS); I²C bus
PCF8566	universal LCD driver for low multiplex rates (1:1 to 1:4); max. 96 elements; I²C bus
PCF8570	256x8–bit static RAM; I²C bus
PCF8571	128x8–bit static RAM; I²C bus
PCF8573	clock calendar; I²C bus
PCF8574	remote 8–bit I/O expander; I²C bus
PCF8574A	remote 8–bit I/O expander; I²C bus; different slave address
PCF8576	universal LCD driver for low multiplex rates 1:1 to 1:4); max. 160 segments; I²C bus
PCF8577	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus
PCF8577A	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus; different slave address
PCF8578	LCD row/column driver for dot matrix graphic displays; 40 outputs, of which 24 are programmable; I²C bus
PCF8579	LCD column driver for dot matrix graphic displays; 40 column outputs; I²C bus
PCF8582A	256x8–bit EEPROM; I²C bus

PERIPHERAL ICs (cont.)

PCF8583	clock calendar with 256x8-bit static RAM; I^2C bus
PCF8591	8-bit ADC/DAC; I^2C bus
SAA1099	stereo sound generator for sound effects and music synthesis (μC-controlled)
SAA5350	EUROM, CRT controller (CEPT standard)
SE5018	8-bit microprocessor-compatible DAC
SE5119	8-bit microprocessor-compatible DAC with current output
S8X360	memory address director
TDA1721	8-bit multiplying DAC
TEA2000	PAL/NTSC colour encoder
241 141	high speed FIFO RAM controller

MICROPROCESSORS

SCC68070	microprocessor; 16/32–bit MPU; 68000 CPU; MMU; DMA; timer; UART; I^2C bus
SCN68000	microprocessor; 16/32–bit MPU; 16–bit external/ 32–bit internal MPU; 17 general purpose 32–bit registers; 16 MB linear address space

PERIPHERAL ICs

NE587	LED decoder/driver
NE589	LED decoder/driver
NE5018	8–bit microprocessor–compatible DAC
NE5019	8–bit microprocessor–compatible DAC
NE5020	10–bit microprocessor–compatible DAC
NE5118	8–bit microprocessor–compatible DAC with current output
NE5119	8–bit microprocessor–compatible DAC with current output
PCB2310	IST bus interface
PCB2390	LTT–4B/3T echo canceller
SAA1045	line driver/detector for digital data bus (D^2B) (built–in filter)
SCB2675	colour/monochrome attributes controller (CMAC)
SCB2675T	turbo colour/monochrome attributes controller (Turbo–CMAC)
SCB2677	video attributes controller (VAC)
SCB68154	interrupt generator (VME bus)
SCB68155	interrupt handler (VME bus)
SCB68171	very little serial interface chip (VLSIC) (VMS–bus–controller to VMS–bus interface)
SCB68172	VME bus controller (BUSCON) interface circuit; master–slave configurations, processor or DMA interface
SCB68175	VME bus master
SCB68430	direct memory access interface (DMAI)
SCC2691	universal asynchronous receiver/transmitter (UART)
SCC2692	dual asynchronous receiver/transmitter (DUART)
SCC2698	octal universal asynchronous receiver/transmitter (Octal UART)
SCC63484	advanced CRT controller (ACRTC)
SCC66470B	video and system controller (VSC); 68000–bus–compatible
SCC68173	VMS bus controller (VMSCON)
SCC68692	dual asynchronous receiver/transmitter (DUART)
SCN2641	asynchronous communications interface (ACI)
SCN2651	programmable communications interface (PCI)
SCN2652	multi–protocol communications controller (MPCC)
SCN2661	enhanced programmable communications interface (EPCI)
SCN2672	programmable video timing controller (PVTC)
SCN2674	advanced video display controller (AVDC)
SCN2681	dual asynchronous receiver/transmitter (DUART)

PERIPHERAL ICs (cont.)

SCN26562	dual universal serial comrnunications controller (DUSCC); dual channel; asynchronous; multi–protocol operation; DMA interface; two counter/ timers; baud rate generator; synchronous bus interface
SCN68562	dual universal serial comrnunications controller (DUSCC); dual channel asynchronous; multi–protocol operation; DMA interface; two timer/counters; baud rate generator; interfaces to the 68000 MPU
SCN68681	dual asynchronous receiver/transmitter (DUART); dual channel; quad buffered receiver; double buffered transmitter; independent baud rate selection; the SCN68681 is for non–multiplexed bus processors like SCN68000; the SCN2681 is for multiplexed bus processors like Intel/Zilog etc.
SE5018	8–bit microprocessor–compatible DAC
SE5119	8–bit microprocessor–compatible DAC with current output
2964B	dynamic memory controller

AMPLIFIERS

NE542	dual low–noise preamplifier
NE5212	transimpedance amplifier
	transimpedance amplifier
SA5212	transimpedance amplifier
SE5212	transimpedance amplifier
μA733	differential video amplifier
μA733C	differential video amplifier

OP AMPS

LM124	quad low power operational amplifier
LM158	dual low power operational amplifier
LM224	quad low power operational amplifier
LM258	dual low power operational amplifier
LM324	quad low power operational amplifier
LM324A	quad low power operational amplifier
LM358	dual low power operational amplifier
LM2902	quad low power operational amplifier
LM2904	dual low power operational amplifier
MC1458	dual general purpose operational amplifier
MC1558	dual general purpose operational amplifier
MC3303	quad low power operational amplifier
MC3403	quad low power operational amplifier
MC3503	quad low power operational amplifier
NE530	high slew rate operational amplifier
NE531	high slew rate operational amplifier
NE532	dual low power operational amplifier
NE538	high slew rate operational amplifier
NE592	video amplifier
NE1012	low noise operational amplifier
NE1037	low noise, high speed precision operational amplifier
NE4558	dual general purpose operational amplifier
NE5204	wide band high frequency amplifier
NE5205	wide band high frequency amplifier
NE5230	low voltage operational amplifier
NE5512	dual high performance operational amplifier
NE5514	quad high performance operational amplifier
NE5517	dual operational transconductance amplifier
NE5517A	dual operational transconductance amplifier
NE5532	internally compensated dual low noise operational amplifier
NE5532A	internally compensated dual low noise operational amplifier
NE5533	dual low noise operational amplifier
NE5533A	dual low noise operational amplifier
NE5534	single low noise operational amplifier
NE5534A	single low noise operational amplifier
NE5535	dual high slew rate operational amplifier
NE5539	ultra high frequency operational amplifier
NE5592	video amplifier
SA532	dual low power operational amplifier
SA534	quad low power operational amplifier
SA741C	general purpose operational amplifier
SA747C	dual operational amplifier
SA1458	dual general purpose operational amplifier
SA4558	dual general purpose operational amplifier
SA5204	wide band high frequency amplifier
SA5205	wide band high frequency amplifier
SA5230	low voltage operational amplifier
SA5512	dual high performance operational amplifier
SA5534	single low noise operational amplifier
SA5534A	single low noise operational amplifier
SE530	high slew rate operational amplifier
SE531	high slew rate operational amplifier
SE532	dual low power operational amplifier
SE538	high slew rate operational amplifier
SE592	video amplifier

OP AMPS (cont.)

SE4558	dual general purpose operational amplifier
SE5205	wide band high frequency amplifier
SE5512	dual high performance operational amplifier
SE5514	quad high performance operational amplifier
SE5532	internally compensated dual low noise operational amplifier
SE5532A	internally compensated dual low noise operational amplifier
SE5534	single low noise operational amplifier
SE5534A	single low noise operational amplifier
SE5535	dual high slew rate operational amplifier
SE5539	ultra high frequency operational amplifier
TCA520B	low–power/low–voltage operational amplifier
TCA520D	low–power/low–voltage operational amplifier
μA741	general purpose operational amplifier
μA741C	general purpose operational amplifier
μA747	dual operational amplifier
μA747C	dual operational amplifier

COMPARATORS

LM111	voltage comparator
LM119	dual voltage comparator
LM139	quad voltage comparator
LM139A	quad voltage comparator
LM193	low power dual voltage comparator
LM193A	low power dual voltage comparator
LM211	voltage comparator
LM219	dual voltage comparator
LM239	quad voltage comparator
LM239A	quad voltage comparator
LM293	low power dual voltage comparator
LM293A	low power dual voltage comparator
LM311	voltage comparator
LM319	dual voltage comparator
LM339	quad voltage comparator
LM339A	quad voltage comparator
LM393	low power dual voltage comparator
LM393A	low power dual voltage comparator
LM2901	quad voltage comparator
LM2903	low power dual voltage comparator
MC3302	quad voltage comparator
NE521	high speed dual differential comparator/ sense amplifier
NE522	high speed dual differential comparator/ sense amplifier
NE527	voltage comparator
NE529	voltage comparator
NE5105	precision high–speed comparator with latch
NE5105A	precision high–speed comparator with latch
SA5105	precision high–speed comparator with latch
SA5105A	precision high–speed comparator with latch
SE521	high speed dual differential comparator/ sense amplifier
SE522	high–speed dual differential comparator/sense amplifier
SE527	voltage comparator
SE529	voltage comparator
SE5105	precision high–speed comparator with latch
SE5105A	precision high–speed comparator with latch

ADCs, DACs

ADC0801–1	8–bit CMOS ADC
ADC0802–1	8–bit CMOS ADC
ADC0803–1	8–bit CMOS ADC
ADC0804–1	8–bit ADC (CMOS)
ADC0805–1	8–bit ADC (CMOS)
ADC0820	8–bit CMOS ADC with track/hold
AM6012	12–bit multiplying DAC
DAC08	8–bit high–speed multiplying DAC
MC1408–7	8–bit multiplying DAC
MC1408–8	8–bit multiplying DAC
MC1508–8	8–bit multiplying DAC
MC3410	10–bit high speed multiplying DAC
MC3410C	10–bit high speed multiplying DAC
MC3510	10–bit high–speed multiplying DAC
NE5018	8–bit microprocessor–compatible DAC
NE5019	8–bit microprocessor–compatible DAC
NE5020	10–bit microprocessor–compatible DAC
NE5030	10–bit high–speed microprocessor–compatible DAC
NE5034	8–bit high–speed ADC
NE5036	6–bit ADC (serial output)
NE5037	6–bit ADC (parallel outputs)
NE5118	8–bit microprocessor–compatible DAC with current output
NE5119	8–bit microprocessor–compatible DAC with current output
NE5150	RGB video DAC
NE5151	RGB video DAC
NE5152	RGB video DAC
NE5410	10–bit high speed multiplying DAC
PCF8591	8–bit ADC/DAC; I^2C bus
SE5018	8–bit microprocessor–compatible DAC
SE5019	8–bit microprocessor–compatible DAC
SE5030	10–bit high–speed microprocessor–compatible DAC
SE5118	8–bit microprocessor–compatible DAC with current output
SE5119	8–bit microprocessor–compatible DAC with current output
SE5410	10–bit high–speed multiplying DAC
TDA1432	8–bit DAC (CMOS)
TDA1534	14–bit ADC
TDA1541A	dual 16–bit DAC
TDA1543	dual 16–bit economy DAC (I^2S bus format)
TDA1543A	dual 16–bit economy DAC (Japanese format)
TDA8702	8–bit high–performance, high–speed video DAC; 30 MHz (max.); TTL–compatible
TDA8703	8–bit high–performance, high–speed ADC; 40 MHz (max.); TTL–compatible

DRIVERS

MC1488	quad line driver
NE587	LED decoder/driver
NE589	LED decoder/driver
NE590	addressable peripheral drivers
NE591	addressable peripheral drivers
NE594	vacuum fluorescent display driver
NE5090	addressable relay driver
NE5170	octal line driver
SAA1064	4–digit LED driver; I^2C bus
SA594	vacuum fluorescent display driver
TEA1017	13–bit series–parallel converter and display driver
ULN2003	high–voltage/high current Darlington transistor array
ULN2004	high voltage/high current Darlington transistor array

RECEIVERS

MC1489	quad line receiver
MC1489A	quad line receiver
NE5180	octal differential line receiver
NE5181	octal differential line receiver

INTERFACES

MEB3000	PDV–bus interface circuit
NE587	LED decoder/driver
NE589	LED decoder/driver
NE590	addressable peripheral drivers
NE591	addressable peripheral drivers
NE5090	addressable relay driver
PCF8574	remote 8–bit I/O expander; I^2C bus
PCF8574A	remote 8–bit I/O expander; I^2C bus; different slave address
SAA1029	universal industrial logic and interface circuit
TEA1017	13–bit series–parallel converter and display driver
ULN2003	high–voltage/high current Darlington transistor array
ULN2004	high voltage/high current Darlington transistor array

MOTOR CONTROL

NE544	servo amplifier
NE5044	programmable seven–channel RC encoder
NE5045	seven channel RC decoder
NE5570	brushless DC motor controller
SAA1027	stepping motor control circuit
SA5570	brushless DC motor controller
SE5570	brushless DC motor controller
TDA5040	DC motor drive circuit with magnetic–field detector
TDA5045	DC motor drive circuit with magnetic–field detector
TDA5140	DC scanner motor driver
TEA1012	stepping motor control circuit

POSITION MEASUREMENT

NE5520	linear variable differential transformer (LVDT) signal conditioner
NE5521	linear variable differential transformer (LVDT) signal conditioner
SA5521	linear variable differential transformer (LVDT) signal conditioner
SE5521	linear variable differential transformer (LVDT) signal conditioner

POWER SUPPLY ICs

NE5560	SMPS controller
NE5561	SMPS controller
NE5562	SMPS controller
NE5568	SMPS controller
SA723C	precision voltage regulator
SE5560	SMPS controller
SE5561	SMPS controller
SE5562	SMPS controller
SG1524C	SMPS controller
SG1526	SMPS controller
SG2524C	SMPS controller
SG2526	SMPS controller
SG3524	SMPS controller
SG3524C	SMPS controller
SG3526	SMPS controller
TDA1023	proportional–control triac triggering circuit
TDA1060	SMPS controller
TDA1060A	SMPS controller
TDA1060B	SMPS controller
TDA1060T	SMPS controller
TDA3645	SMPS driver
μA723	precision voltage regulator
μA723C	precision voltage regulator

SAMPLE–AND–HOLD

LF198	sample–and–hold amplifier
LF298	sample–and–hold amplifier
LF398	sample–and–hold amplifier
NE5060	precision high–speed sample–and–hold amplifier
NE5537	low leakage sample–and–hold amplifier
SE5060	precision high–speed sample–and–hold amplifier
SE5537	low leakage sample–and–hold amplifier
TDA1535	high–speed sample–and–hold amplifier

TIMERS

ICM7555	general purpose CMOS timer
NE555	timer
NE556	dual timer
NE556–1	dual timer
NE558	quad timer
SA555	timer
SA556	dual timer
SA556–1	dual timer
SA558	quad timer
SE555	timer
SE555C	timer
SE556	dual timer
SE556–1	dual timer
SE556–1C	dual timer
SE556C	dual timer
SE558	quad timer

ANALOG CLOCKS

PCA1512	4 MHz DC alarm clock circuit; bipolar motor; output cycle time = 1 s; pulse duration = 1 s
PCA1517	4 MHz DC alarm clock circuit; bipolar motor; output cycle time = 1 s; pulse duration = 46.8 ms
PCA1584	32 kHz alarm clock circuit; EEPROM; bipolar motor; output cycle time = 1 s; pulse duration = 46.8 ms
PCA1585	32 kHz alarm clock circuit; EEPROM; bipolar motor; output cycle time = 1 s; pulse duration = 46.8 ms
PCA1586	32 kHz alarm clock circuit; EEPROM; bipolar motor; output cycle time = 1 s; pulse duration = 15.6 ms
PCA1587	32 kHz alarm clock circuit; EEPROM; bipolar motor; output cycle time = 4 s; pulse duration = 15.6 ms
PCA1590	32 kHz alarm clock circuit with EEPROM for frequency adjustment

ANALOG WATCHES

PCA1201	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 7.8 ms
PCA1203	32 kHz watch circuit; bipolar motor; output cycle time = 20 s; pulse duration = 7.8 ms
PCA1204	32 kHz watch circuit; bipolar motor; output cycle time = 5 s; pulse duration = 7.8 ms
PCA1205	32 kHz watch circuit; bipolar motor; output cycle time = 12 s; pulse duration = 6.8 ms
PCA1207	32 kHz watch circuit; bipolar motor; output cycle time = 10 s; pulse duration = 7.8 ms
PCA1209	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 5.9 ms
PCA1212	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 7.8 ms
PCA1243	32 kHz watch circuit; bipolar motor; output cycle time = 20 s; pulse duration = 6.8 ms
PCA1246	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 3.9 ms
PCA1247	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 6.8 ms
PCA1248	32 kHz watch circuit; bipolar motor; output cycle time = 10 s; pulse duration = 5.9 ms
PCA1249	32 kHz watch circuit; bipolar motor; output cycle time = 12 s; pulse duration = 5.9 ms
PCA1260	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 7.8 ms; end of life detector
PCA1261	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 7.8 ms
PCA1401	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 1 s; pulse duration = 7.8 ms
PCA1403	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 20 s; pulse duration = 7.8 ms
PCA1404	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 5 s; pulse duration = 7.8 ms
PCA1408	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 20 s; pulse duration = 5.8 ms
PCA1409	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 1 s; pulse duration = 5.8 ms

ANALOG WATCHES (cont.)

PCA1411	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 7.8 ms
PCA1412	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 1 s; pulse duration = 31.2 ms
PCA1426	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 20 s; pulse duration = 5.8 ms
PCA1446	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 1 s; pulse duration = 3.9 ms
PCA1449	32 kHz watch circuit; EEPROM; bipolar motor; output cycle time = 12 s; pulse duration = 5.8 ms
PCA1460	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 7.8 ms; battery voltage and end of life detector
PCA1461	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 7.8 ms; battery voltage level detector
PCA1462	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 5.8 ms; battery voltage and end of life detector
PCA1463	32 kHz watch circuit; bipolar motor; output cycle time = 1 s; pulse duration = 3.9 ms; battery voltage and end of life detector

DIGITAL CLOCKS

NE587	LED decoder/driver
NE589	LED decoder/driver
NE594	vacuum fluorescent display driver
PCF1171	4–digit LCD car clock circuit
PCF1172	3.5–digit LCD car clock circuit
PCF1174	4–digit static–LCD car clock circuit; EEPROM
PCF1175	4–digit duplex–LCD car clock circuit; EEPROM
PCF1176	4–digit static–LCD car clock circuit; EEPROM
PCF1178	4–digit duplex–LCD driver; I^2C bus
SAA1064	4–digit LED driver; I^2C bus
SA594	vacuum fluorescent display driver

DATA COMMUNICATIONS

AM26LS31	quad high–speed differential line driver
MC1488	quad line driver
MC1489	quad line receiver
MC1489A	quad line receiver
NE564	phase–locked loop; 5 V supply; up to 50 MHz; TTL compatible in/out
NE568	phase–locked loop; up to 150 MHz
NE592	video amplifier
NE602	double–balanced mixer and oscillator
NE604	low power narrow band FM IF system
NE5050	power line modem
NE5080	high–speed FSK modem transmitter
NE5081	high–speed FSK modem receiver
NE5170	octal line driver
NE5180	octal differential line receiver
NE5181	octal differential line receiver
NE5204	wide band high frequency amplifier
NE5205	wide band high frequency amplifier
NE5212	transimpedance amplifier
NE5539	ultra high frequency operational amplifier
N8X01A	CRC generator/checker
N8X60	FIFO RAM controller (4K RAM)
N74F86	quad 2–input EXCLUSIVE–OR gate
N74F764	DRAM dual–ported controller
N74F764–1	DRAM dual–ported controller
N74F764A	DRAM dual ported controller
N74F765	DRAM dual–ported controller without latch
N74F765–1	DRAM dual–ported controller without latch
N74F765A	DRAM dual–ported controller without latch
N74F1763	1 M–bit intelligent DRAM controller
N74F1764	1 M–bit DRAM dual–ported controller with latch
N74F1764–1	1 M–bit DRAM dual–ported controller with latch
N74F1765	1 M–bit DRAM dual–ported controller without latch
N74F1765–1	1 M–bit DRAM dual–ported controller without latch
N74LS429	FIFO RAM controller (64K)
PCB2310	IST bus interface
PCB2320	data rate adapter
PCB2390	LTT–4B/3T echo canceller
PC74HCT4046A	phase–locked loop with VCO
PC74HCT7030	9–bit x 64 word FIFO register; 3–state
PC74HCT40105	4–bit x 16 word FIFO register
PC74HC4046A	phase–locked loop with VCO
PC74HC7030	9–bit x 64 word FIFO register; 3–state
PC74HC40105	4–bit x 16 word FIFO register
SAA1045	line driver/detector for digital data bus (D^2B) (built–in filter)
SAA1235	universal digital data bus (D^2B) transceiver
SA602	double–balanced mixer and oscillator
SA604	low power narrow band FM IF system
SA5204	wide band high frequency amplifier
SA5205	wide band high frequency amplifier
SA5212	transimpedance amplifier
SCC2691	universal asynchronous receiver/transmitter (UART)
SCC2692	dual asynchronous receiver/transmitter (DUART)
SCC2698	octal universal asynchronous receiver/transmitter (Octal UART)
SCC68692	dual asynchronous receiver/transmitter (DUART)
SCN2641	asynchronous communications interface (ACI)
SCN2652	multi–protocol communications controller (MPCC)

DATA COMMUNICATIONS (cont.)

SCN2661	enhanced programmable communications interface (EPCI)
SCN2681	dual asynchronous receiver/transmitter (DUART)
SCN68562	dual universal serial communications controller (DUSCC); dual channel asynchronous; multi–protocol operation; DMA interface; two timer/counters; baud rate generator; interfaces to the 68000 MPU
SCN68681	dual asynchronous receiver/transmitter (DUART); dual channel; quad buffered receiver; double buffered transmitter; independent baud rate selection; the SCN68681 is for non–multiplexed bus processors like SCN68000; the SCN2681 is for multiplexed bus processors like Intel/Zilog etc.
SE564	phase–locked loop; 5 V supply; up to 50 MHz; TTL compatible in/out
SE592	video amplifier
SE5205	wide band high frequency amplifier
SE5212	transimpedance amplifier
SE5539	ultra high frequency operational amplifier
TEA5500	coded locking circuit for security systems
9401	CRC generator/checker

RADIO COMMUNICATIONS

CA3089	FM IF system
MC1496	balanced modulator/demodulator
MC1596	balanced modulator/demodulator
MC3361	low power FM IF system
NE564	phase–locked loop; 5 V supply; up to 50 MHz; TTL compatible in/out
NE565	phase locked loop; ±6 to ±12 V supply; 0.001 Hz to 500 kHz; TTL/DTL compatible output
NE566	function generator
NE567	tone/frequency decoder PLL
NE568	phase–locked loop; up to 150 MHz
NE570	compandor
NE571	compandor
NE572	programmable analog compandor
NE575	low voltage dual expander/single compandor or automatic level controller
NE602	double–balanced mixer and oscillator
NE604	low power narrow band FM IF system
NE605	low–power FM IF system
NE612	double balanced mixer and oscillator
NE614	low power FM IF system
SA571	compandor
SA572	programmable analog compandor
SA575	low voltage dual expander/single compandor or automatic level controller
SA602	double–balanced mixer and oscillator
SA604	low power narrow band FM IF system
SA605	low–power FM IF system
SCC66470B	video and system controller (VSC); 68000–bus–compatible
SE564	phase–locked loop; 5 V supply; up to 50 MHz; TTL compatible in/out
SE565	phase–locked loop; ± 6 to ± 12 V supply; TTL/DTL compatible output
SE566	function generator
SE567	tone/frequency decoder PLL
TDB1080	IF limiting amplifier, FM detector and audio amplifier
UMA1000	data processor for cellular radio (DPROC); I^2C bus
UMA1010	low–power universal frequency synthesizer for radio communications; 400 to 1150 MHz; I^2C bus

AMPLIFIERS

NE542	dual low–noise preamplifier
OM200/S2	integrated amplifier for use in hearing aids
TAA263	low level amplifier
TAA320	integrated MOST amplifier
TDA1002A	recording amplifier with preamplifier and automatic level control
TDA1010A	6 W audio power amplifier for in–car applications/10 W audio power amplifier for mains–fed applications
TDA1011	2 to 6 W audio power amplifier with preamplifier
TDA1013B	4 W audio power amplifier with DC volume control
TDA1015	1 to 4 W audio power amplifier with preamplifier
TDA1015T	0.5 W audio power amplifier with preamplifier
TDA1016	2 W recording/playback audio power amplifier with preamplifier, automatic level control, short circuit and thermal protection
TDA1020	12 W audio power amplifier with preamplifier for car radios
TDA1510A	24 W BTL or 2x12 W stereo car radio power amplifier
TDA1512A	12 to 20 W hi–fi audio power amplifier
TDA1514	40 W hi–fi power amplifier for digital audio (e.g. Compact Disc)
TDA1514A	40 W hi–fi power amplifier for digital audio (e.g. Compact Disc)
TDA1515B	24 W BTL or 2x12 W stereo car radio power amplifier
TDA1516Q	22 W BTL or 2x11 W stereo car radio power amplifier; closed loop voltage gain 26 dB
TDA1517	2x6 W stereo car radio audio power amplifier (20 dB gain)
TDA1518Q	22 W BTL or 2x11 W stereo car radio power amplifier; closed loop voltage gain 46 dB
TDA1519	2x6 W stereo car radio audio power amplifier (40 dB gain)
TDA1519A	22 W BTL or 2x11 W stereo car radio power amplifier
TDA1519B	12 W BTL or 2x6 W stereo car radio power amplifier
TDA1520B	20 W hi–fi audio power amplifier; complete SOAR protection
TDA1521	2x12 W hi–fi stereo audio power amplifier
TDA1521A	2x6 W hi–fi stereo audio power amplifier
TDA1521Q	2x12 W hi–fi stereo audio power amplifier
TDA1522	stereo playback amplifier/equalizer with mute switch
TDA1535	high–speed sample–and–hold amplifier
TDA2611A	5 W audio power amplifier
TDA2613	6 W hi–fi audio power amplifier
TDA7050	150 mW BTL or 2x75 mW stereo audio power amplifier; low voltage
TDA7052	1 W BTL mono audio amplifier for portable applications
TDA7053	2x1 W BTL stereo audio power amplifier for portable applications

ARI SYSTEM

TDA1579	traffic warning decoder circuit (AM carriers); ARI system
TDA1589	traffic control message and warning tone circuit; ARI system

AUDIO ICs

Bus–controlled

PCF5022	CMOS analogue interface circuit (digital section) for audio systems; I^2S bus
PCF5023	CMOS analogue interface circuit (digital section) for audio systems; I^2S bus
TDA8420	hi–fi stereo audio processor; I^2C bus
TDA8421	hi–fi stereo audio processor; I^2C bus
TDA8425	hi–fi stereo audio processor; I^2C bus
TEA6300	car radio preamplifier and source selector with sound and fader controls; I^2C bus
TEA6310	sound fader control circuit; I^2C bus

DC–controlled

TDA1029	signal–sources switch (4 x two channels)
TDA1074A	dual tandem electronic potentiometer circuit
TDA1524A	stereo tone/volume control circuit
TDA1525	stereo tone/volume control circuit
TDA1600	multi–function oscillator switch for audio cassette recorders
TDA3810	spatial, stereo and pseudo–stereo sound circuit
TDD1601	equalizer for audio cassette recorders

CLOCK/CALENDAR

PCF8573	clock calendar; I^2C bus
PCF8583	clock calendar with 256x8–bit static RAM; I^2C bus

DATA CONVERSION

ADCs, DACs

MC3510	10–bit high–speed multiplying DAC
PCF8591	8–bit ADC/DAC; I^2C bus
PNA7509	7–bit ADC; 22 MHz; 3–state output
PNA7518	8–bit multiplying DAC; 30 MHz
SAA7320	stereo DAC for Compact Disc
SE5410	10–bit high–speed multiplying DAC
TDA1534	14–bit ADC
TDA1541A	dual 16–bit DAC
TDA1543	dual 16–bit economy DAC (I^2S bus format)
TDA1543A	dual 16–bit economy DAC (Japanese format)
TDA8444	octuple 6–bit DAC; I^2C bus

DIGITAL AUDIO

Compact Disc

SAA7210	decoder for Compact Disc (second generation)
SAA7220	digital filter and interpolator for Compact Disc (second generation)
SAA7310	decoder for Compact Disc (third generation)
SAA7320	stereo DAC for Compact Disc
SAA7340	decoder/digital filter/DAC for Compact Disc
SAA7610	digital signal controller/decoder/character generator for CD–V (PAL)
SAA7611	digital signal controller/decoder/character generator for CD–V (PAL, NTSC)
SAA7630	CCD delay line for error correction in video and sound carrier timebases (laservision players)
TDA1514	40 W hi–fi power amplifier for digital audio (e.g. Compact Disc)
TDA1514A	40 W hi–fi power amplifier for digital audio (e.g. Compact Disc)
TDA1541A	dual 16–bit DAC
TDA1542	active element for post filtering (dual channel)
TDA1543	dual 16–bit economy DAC (I^2S bus format)
TDA1543A	dual 16–bit economy DAC (Japanese format)
TDA5708	photo diode signal processor for Compact Disc single–spot read–out systems
TDA5709	radial error signal processor for Compact Disc
TDA8808	photo diode signal processor for Compact Disc
TDA8808A	photo diode signal processor for Compact Disc
TDA8809	radial error signal processor for Compact Disc

Input circuits

SAA7274	audio digital input circuit (ADIC)
TDA1542	active element for post filtering (dual channel)

DISPLAY DRIVERS

PCF1303	18–element bar graph LCD driver (with analogue input)
PCF2100	LCD duplex driver; 40 segments
PCF2110	LCD duplex driver; 60 segments and 2 LEDs
PCF2111	LCD duplex driver; 64 segments
PCF2112	LCD driver; 32 segments
PCF2201	LCD flat panel row/column driver
PCF8566	universal LCD driver for low multiplex rates (1:1 to 1:4); max. 96 elements; I^2C bus
PCF8576	universal LCD driver for low multiplex rates 1:1 to 1:4); max. 160 segments; I^2C bus
PCF8577	LCD direct driver (32 segments) or duplex driver (64 segments); I^2C bus
PCF8577A	LCD direct driver (32 segments) or duplex driver (64 segments); I^2C bus; different slave address
PCF8578	LCD row/column driver for dot matrix graphic displays; 40 outputs, of which 24 are programmable; I^2C bus
PCF8579	LCD column driver for dot matrix graphic displays; 40 column outputs; I^2C bus

DISPLAY DRIVERS (cont.)

SAA1060	LED display/interface circuit
SAA1064	4–digit LED driver; I²C bus

DOLBY ICs

NE645	Dolby B and C type noise reduction circuit
NE646	Dolby B and C type noise reduction circuit
NE648	low voltage Dolby B type noise reduction circuit
NE649	low voltage Dolby B type noise reduction circuit
NE650	Dolby B type noise reduction circuit
NE5240	Dolby digital audio decoder
TEA0652	Dolby B & C noise reduction circuit
TEA0653	stereo or 2–channel Dolby B noise reduction circuit
TEA0654	preamplifier and electronic switch for Dolby B & C noise reduction circuits
TEA0657	dual Dolby B noise reduction circuit
TEA0665	Dolby B & C processor with preamplifier and electronic switch
TEA0666	Dolby B & C processor with preamplifier and electronic switch; changed frequency response in relation to TEA0665
TEA0670	Dolby B & C processor with preamplifier and electronic switch; low voltage

FREQUENCY SYNTHESIZERS

HEF4750V	frequency synthesizer
SAA1057	radio tuning PLL frequency synthesizer (SYMO II)
TDD1742	low power frequency synthesizer (LOPSY)
TSA6057	radio tuning PLL frequency synthesizer; I²C bus

I²C BUS ICs

MAB8401	microcontroller; 128x8 RAM; bond–out version for MAB84XX family plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAF84A11	microcontroller; 64x8 RAM; 1Kx8 ROM; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C

I²C BUS ICs (cont.)

MAF84A21	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A22	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A41	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A42	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A61	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
PCA80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA80C652	microcontroller; 256x8 RAM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCB80C552	microcontroller; 256x8 RAM; 16–bit capture/ compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C652	microcontroller; 256x8 RAM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I²C bus; 1.2 to 12 MHZ; 0 to +70 °C

I²C BUS ICs (cont.)

PCB83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCF80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF80C652	microcontroller; 256x8 RAM; serial I/O; UART: I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF8200	voice synthesizer (CMOS); I²C bus
PCF8566	universal LCD driver for low multiplex rates (1:1 to 1:4); max. 96 elements; I²C bus
PCF8570	256x8–bit static RAM; I²C bus
PCF8571	128x8–bit static RAM; I²C bus
PCF8573	clock calendar; I²C bus
PCF8574	remote 8–bit I/O expander; I²C bus
PCF8574A	remote 8–bit I/O expander; I²C bus; different slave address
PCF8576	universal LCD driver for low multiplex rates 1:1 to 1:4); max. 160 segments; I²C bus
PCF8577	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus
PCF8577A	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus; different slave address
PCF8578	LCD row/column driver for dot matrix graphic displays; 40 outputs, of which 24 are programmable; I²C bus
PCF8579	LCD column driver for dot matrix graphic displays; 40 column outputs; I²C bus
PCF8582A	256x8–bit EEPROM; I²C bus
PCF8583	clock calendar with 256x8–bit static RAM; I²C bus
PCF8591	8–bit ADC/DAC; I²C bus
SAA1064	4–digit LED driver; I²C bus
SAA1300	tuner switching circuit; I²C bus
SAA3028	high performance transcoder (RC–5) for infrared remote control; I²C bus
TDA8420	hi–fi stereo audio processor; I²C bus
TDA8421	hi–fi stereo audio processor; I²C bus
TDA8425	hi–fi stereo audio processor; I²C bus
TEA6000	FM/IF system and microcomputer–based tuning interface; I²C bus
TEA6100	FM/IF system and microcomputer–based tuning interface; I²C bus
TEA6300	car radio preamplifier and source selector with sound and fader controls; I²C bus
TEA6310	sound fader control circuit; I²C bus

INTERFERENCE SUPPRESSORS

TDA1001B	interference and noise suppression circuit for FM receivers

LEVEL SENSOR (MOST)

TAA320A	integrated MOST level sensor

MEMORIES

FCB61C65–45	8192x8–bit high–speed CMOS static RAM; access time 45 ns
FCB61C65–55	8192x8–bit high–speed CMOS static RAM; access time 55 ns
FCB61C65–70	8192x8–bit high–speed CMOS static RAM; access time 70 ns
FCB61C65L–45	8192x8–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C65L–55	8192x8–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C65L–70	8192x8–bit high–speed CMOS low–power static RAM; access time 70 ns
PCF8570	256x8–bit static RAM; I^2C bus
PCF8571	128x8–bit static RAM; I^2C bus
PCF8582A	256x8–bit EEPROM; I^2C bus

MICROCONTROLLERS

CMOS 8–bit

PCA80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 12 MHz; –40 to +110 °C
PCA80C39	microcontroller; 128x8 RAM; 1.0 to 15 MHz; –40 to +110 °C
PCA80C49	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 15 MHz; –40 to +110 °C
PCA80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 12 MHz; –40 to +110 °C
PCA80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I^2C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA80C652	microcontroller; 256x8 RAM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I^2C bus; 1.2 to 12 MHZ; –40 to +110 °C
PCA83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; –40 to +110 °C
PCB80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 16 MHz; 0 to +70 °C
PCB80C39	microcontroller; 128x8 RAM; 1.0 to 15 MHz; 0 to +70 °C
PCB80C49	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 15 MHz; 0 to +70 °C

MICROCONTROLLERS (cont.)

CMOS 8–bit (cont.)

PCB80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 16 MHz; 0 to +70 °C
PCB80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C652	microcontroller; 256x8 RAM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I²C bus; 1.2 to 12 MHZ; 0 to +70 °C
PCB83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCF80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 12 MHz; –40 to + 85 °C
PCF80C39	microcontroller; 128x8 RAM; 1.0 to 15 MHz; –40 to +85 °C
PCF80C49	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 15 MHz; –40 to +85 °C
PCF80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 12 MHz; –40 to +85 °C
PCF80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF80C652	microcontroller; 256x8 RAM; serial I/O; UART: I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I²C bus; 1.2 to 12 MHZ; –40 to +85 °C
PCF83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF84C00	microcontroller; 256x8 RAM; bond–out version PCF84CXX family; I²C bus
PCF84C12	low cost microcontroller; 64x8 RAM; 1Kx8 ROM
PCF84C21	microcontroller; 64x8 RAM; 2Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C41	microcontroller; 128x8 RAM; 4Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C81	microcontroller; 256x8 RAM; 8Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C85	microcontroller; 256x8 RAM; 8Kx8 ROM; 32 I/O; plus 8–bit LED driver; I²C bus; –40 to +85 °C

MICROCONTROLLERS (cont.)

NMOS 8–bit

MAB8401	microcontroller; 128x8 RAM; bond–out version for MAB84XX family plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAF84A11	microcontroller; 64x8 RAM; 1Kx8 ROM; I^2C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A21	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A22	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A41	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A42	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A61	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I^2C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C

MOTOR CONTROLLERS

TDA1059B	motor speed regulator with thermal shut–down; multiplication coefficient = 9; drop–out voltage = 1.8 V
TDA5040	DC motor drive circuit with magnetic–field detector
TDA5045	DC motor drive circuit with magnetic–field detector
TDA5140	DC scanner motor driver

PERSONAL RADIO/AUDIO

TDA7000	FM radio circuit; mono (in plastic DIL–18)
TDA7010	FM radio circuit; mono (in SO–16 plastic mini–pack)
TDA7021	FM radio circuit; stereo/mono; for low voltage micro tuning system (MTS)
TDA7030	low voltage micro tuning system (MTS)
TDA7040	PLL stereo decoder; low voltage
TDA7050	150 mW BTL or 2x75 mW stereo audio power amplifier; low voltage
TDA7052	1 W BTL mono audio amplifier for portable applications
TDA7053	2x1 W BTL stereo audio power amplifier for portable applications
TEA0670	Dolby B & C processor with preamplifier and electronic switch; low voltage
TEA5551	single–chip AM radio circuit, plus dual AF amplifier, for pocket receivers with headphones

RADIO RECEIVERS

AM

TDA1072A	AM receiver circuit for hi–fi and car radio
TDA1572	AM receiver circuit for stereo hi–fi and car radio
TDB1080	IF limiting amplifier, FM detector and audio amplifier
TEA6200	AM upconversion radio receiver; 10.7 MHz IF

AM/FM

TEA5570	AM/FM radio receiver circuit
TEA5591	AM/FM radio receiver circuit

FM

CA3089	FM IF system
NE605	low–power FM IF system
SAA7579	radio data system decoder
SA605	low–power FM IF system
TDA1574	integrated FM tuner for radio receivers
TDA1576	FM/IF amplifier and detector
TDA1596	FM/IF amplifier and detector
TDA7000	FM radio circuit; mono (in plastic DIL–18)
TDA7010	FM radio circuit; mono (in SO–16 plastic mini–pack)
TDA7021	FM radio circuit; stereo/mono; for low voltage micro tuning system (MTS)
TEA5560	FM/IF system

RADIO RECEIVERS (cont.)

FM (cont.)

TEA6000	FM/IF system and microcomputer–based tuning interface; I^2C bus
TEA6100	FM/IF system and microcomputer–based tuning interface; I^2C bus

REMOTE CONTROLLERS

SAA3004	high performance transmitter (455 kHz) for infrared remote control; up to 448 commands
SAA3006	high performance transmitter (RC–5) for infrared remote control; up to 2048 commands
SAA3007	high performance transmitter (455 kHz) for infrared remote control; up to 1280 commands; low voltage
SAA3008	high performance transmitter (38 kHz) for infrared remote control; low voltage
SAA3009	infrared remote control decoder; decodes 64 commands (RECS80/RC–5); up to 32 subaddresses; high current output capability for direct LED drive
SAA3010	high–performance transmitter (RC–5) for infrared remote control; low voltage
SAA3027	infrared remote control transmitter (RC–5)
SAA3028	high performance transcoder (RC–5) for infrared remote control; I^2C bus
SAA3049	infrared remote control decoder, low current version of SAA3009
SAF1032	receiver/decoder for infrared remote control
SAF1039	transmitter for infrared remote control
TDA3047	high performance receiver for infrared remote control; positive output voltage
TDA3048	high performance receiver for infrared remote control; negative output voltage

REMOTE I/O EXPANDERS

PCF8574	remote 8–bit I/O expander; I^2C bus
PCF8574A	remote 8–bit I/O expander; I^2C bus; different slave address

SOUND GENERATOR

SAA1099	stereo sound generator for sound effects and music synthesis (µC–controlled)

SPEECH SYNTHESIZERS

OM8000	standard Euro–card demo for voice synthesizer MEA8000
OM8200	speech demonstration board (PCF8200)
OM8201	speech demonstration box (PCF8200)
OM8209	update package for OM8010
OM8210	speech analysis/editing system (PCF8200)
PCF8200	voice synthesizer (CMOS); I^2C bus

STEREO DECODERS

LM1870	stereo demodulator with blend
SAA7500	decoder for digital satellite sound
TDA1578A	time multiplex PLL stereo decoder for hi–fi and car radios
TDA1598	time multiplex PLL stereo decoder for hi–fi and car radios
TDA7040	PLL stereo decoder; low voltage
TEA5580	PLL stereo decoder for medium–fi and car radios
TEA5581	PLL stereo decoder with source selector switch for medium–fi and car radios
TSA6057	radio tuning PLL frequency synthesizer; I^2C bus
μA758	FM stereo multiplex decoder; PLL

TUNING ICs

HEF4750V	frequency synthesizer
HEF4751V	universal divider
SAA1057	radio tuning PLL frequency synthesizer (SYMO II)
SAA1300	tuner switching circuit; I^2C bus
SAB6456	sensitive 1 GHz divide–by–64/divide–by–256 switchable prescaler
TDA1574	integrated FM tuner for radio receivers
TDA7030	low voltage micro tuning system (MTS)
TDD1742	low power frequency synthesizer (LOPSY)

IC

AMPLIFIERS

NE542	dual low–noise preamplifier
NE5230	low voltage operational amplifier
SA5230	low voltage operational amplifier
TDA7050	150 mW BTL or 2x75 mW stereo audio power amplifier; low voltage
TDA7052	1 W BTL mono audio amplifier for portable applications

CLOCK/CALENDAR

PCF8573	clock calendar; I^2C bus
PCF8583	clock calendar with 256x8–bit static RAM; I^2C bus

DATA CONVERSION

ADCs, DACs

PCF8591	8–bit ADC/DAC; I^2C bus

CALL PROGRESS DECODER

NE5900	call progress decoder

DIALLER ICs

DTMF

PCD3311	DTMF generator with parallel data inputs; I^2C bus
PCD3311A	DTMF/32–single tone generator with parallel data inputs; I^2C bus
PCD3312	DTMF generator; I^2C bus
PCF4420	dialler with redial, compatible with 3x4 keypad
PCF4421	dialler with redial plus access pause, flash and disconnect functions

Pulse

PCD3320C	dialler with redial; several mute signals; no access pause; mark/space ratio 3:2
PCD3321C	dialler with redial; manual and two automatic access pauses; mark/space ratio 3:2 and 2:1
PCD3322C	variant of PCD3320C
PCD3323	dialler for sophisticated PABX applications
PCD3324C	variant of PCD3321C; one automatic access pause
PCD3325C	dialler with manual access pause control
PCD3326C	variant of PCD3321C with selectable access pause
PCD3327C	variant of PCD3325C for ceramic resonator; automatic reset of access pause

Pulse/DTMF

PCD3310	pulse and DTMF dialler with redial; pulse dialling mark/space ratio 2:1; PABX register; notepad; flash; access pause by cursor method

DIALLER ICs (cont.)

Pulse/DTMF (cont.)

PCD3310A	variant of PCD3310 with mark/space ratio 3:2
PCD3310C	variant of PCD3310; dialling mode indicator output
PCD4410	pulse and DTMF dialler with redial; 3x4 keypad; flash; mark/space ratio 2:1; tone burst 70/140 ms; data memory
PCD4413	variant of PCD4410 without redial; mark/space ratio 3:2; tone burst 70/70 ms
PCD4413A	PCD4413 with flash time of 255 ms
PCD4415	PCD4410 for 3x4 or 3x5 keypad; tone burst 70/70 ms
PCD4415A	PCD4415 with mark/space ratio 3:2

Repertory

PCD3315/502	10–number repertory dialler with redial and DTMF generator for PCD3312; 4x5 keypad; 10 Hz
PCD3315/503	PCD3315/502 plus 10 name keys
PCD3315/512	PCD3315/503 plus 16 and 20 Hz options
PCD3315/513	PCD3315/503 plus Norwegian and Swedish key options
PCD3341	advanced 10–100 number repertory pulse/DTMF dialler; LCD control; I²C bus
PCD3344/004	up to 20 number repertory pulse/DTMF dialler with redial (max. 30 digits); music on hold; LCD control; specification options
PCD3344/006	up to 20 number repertory pulse/DTMF dialler (floating RAM); music on hold; on–hook dialling and listening–in control; specification options

DISPLAY DRIVERS

PCF2111	LCD duplex driver; 64 segments
PCF2201	LCD flat panel row/column driver
PCF8566	universal LCD driver for low multiplex rates (1:1 to 1:4); max. 96 elements; I²C bus
PCF8576	universal LCD driver for low multiplex rates 1:1 to 1:4); max. 160 segments; I²C bus
PCF8577	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus
PCF8577A	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus; different slave address
PCF8578	LCD row/column driver for dot matrix graphic displays; 40 outputs, of which 24 are programmable; I²C bus
PCF8579	LCD column driver for dot matrix graphic displays; 40 column outputs; I²C bus

I²C BUS ICs

PCB80C552	microcontroller; 256x8 RAM; 16–bit capture/ compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C652	microcontroller; 256x8 RAM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C

I²C BUS ICs (cont.)	
PCD3311	DTMF generator with parallel data inputs; I²C bus
PCD3311A	DTMF/32–single tone generator with parallel data inputs; I²C bus
PCD3312	DTMF generator; I²C bus
PCD3315C	microcontroller for telephone sets; 160x8 RAM; 1.5Kx8 ROM; 20 I/O lines; I²C bus
PCD3341	advanced 10–100 number repertory pulse/DTMF dialler; LCD control; I²C bus
PCD3343	microcontroller for telephone sets; 224x8 RAM; 3Kx8 ROM; 20 I/O lines; I²C bus
PCD3344	microcontroller with on–chip DTMF generator; 224x8 RAM; 2Kx8 ROM; 20 I/O lines; I²C bus
PCD3346	microcontroller for telephone sets; 128x8 RAM; 4Kx8 ROM; 256x8 EEPROM; 20 I/O lines; I²C bus
PCD3347	microcontroller with on–chip DTMF generator; 64x8 RAM; 1.5Kx8 ROM; 13 I/O lines; I²C bus
PCD3348	microcontroller for telephone sets; 256x8 RAM; 8Kx8 ROM; 20 I/O lines; I²C bus
PCD3349	microcontroller with on–chip DTMF generator; 224x8 RAM; 4Kx8 ROM; 20 I/O lines; I²C bus
PCF8200	voice synthesizer (CMOS); I²C bus
PCF8566	universal LCD driver for low multiplex rates (1:1 to 1:4); max. 96 elements; I²C bus
PCF8570	256x8–bit static RAM; I²C bus
PCF8571	128x8–bit static RAM; I²C bus
PCF8573	clock calendar; I²C bus
PCF8574	remote 8–bit I/O expander; I²C bus
PCF8574A	remote 8–bit I/O expander; I²C bus; different slave address
PCF8576	universal LCD driver for low multiplex rates 1:1 to 1:4); max. 160 segments; I²C bus
PCF8577	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus
PCF8577A	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus; different slave address
PCF8582A	256x8–bit EEPROM; I²C bus
PCF8591	8–bit ADC/DAC; I²C bus
SCC68070	microprocessor; 16/32–bit MPU; 68000 CPU; MMU; DMA; timer; UART; I²C bus
UMA1000	data processor for cellular radio (DPROC); I²C bus
UMA1010	low–power universal frequency synthesizer for radio communications; 400 to 1150 MHz; I²C bus
UMA1012	low power universal frequency synthesizer for radio communications; I²C bus; up to 550 MHz
MEMORIES	
FCB61C61–35	65536x1–bit high–speed CMOS static RAM; access time 35 ns
FCB61C61–45	65536x1–bit high–speed CMOS static RAM; access time 45 ns
FCB61C61–55	65536x1–bit high–speed CMOS static RAM; access time 55 ns
FCB61C61L–35	65536x1–bit high–speed CMOS low–power static RAM; access time 35 ns
FCB61C61L–45	65536x1–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C61L–55	65536x1–bit high–speed CMOS low–power static RAM; access time 55 ns

MEMORIES (cont.)

FCB61C62–35	16384x4–bit high–speed CMOS static RAM; access time 35 ns
FCB61C62–45	16384x4–bit high–speed CMOS static RAM; access time 45 ns
FCB61C62–55	16384x4–bit high–speed CMOS static RAM; access time 55 ns
FCB61C62L–35	16384x4–bit high–speed CMOS low–power static RAM; access time 35 ns
FCB61C62L–45	16384x4–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C62L–55	16384x4–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C65–45	8192x8–bit high–speed CMOS static RAM; access time 45 ns
FCB61C65–55	8192x8–bit high–speed CMOS static RAM; access time 55 ns
FCB61C65–70	8192x8–bit high–speed CMOS static RAM; access time 70 ns
FCB61C65L–45	8192x8–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C65L–55	8192x8–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C65L–70	8192x8–bit high–speed CMOS low–power static RAM; access time 70 ns
PCF8570	256x8–bit static RAM; I^2C bus
PCF8571	128x8–bit static RAM; I^2C bus
PCF8582A	256x8–bit EEPROM; I^2C bus

MICROCONTROLLERS

PCB80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I^2C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C652	microcontroller; 256x8 RAM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C851	microcontroller; 128x8 RAM; 256x8 EEPROM; 1.2 to 12 MHz; 0 to +70 °C
PCB83C851	microcontroller; 128x8 RAM; 4Kx8 ROM; 256x8 EEPROM; 1.2 to 12 MHz; 0 to +70 °C
PCD3300B	28/28–pin piggyback version for PCD33XX family without DTMF
PCD3315C	microcontroller for telephone sets; 160x8 RAM; 1.5Kx8 ROM; 20 I/O lines; I^2C bus
PCD3343	microcontroller for telephone sets; 224x8 RAM; 3Kx8 ROM; 20 I/O lines; I^2C bus
PCD3344	microcontroller with on–chip DTMF generator; 224x8 RAM; 2Kx8 ROM; 20 I/O lines; I^2C bus
PCD3344B	28/28–pin piggyback version for PCD33XX family with DTMF
PCD3346	microcontroller for telephone sets; 128x8 RAM; 4Kx8 ROM; 256x8 EEPROM; 20 I/O lines; I^2C bus
PCD3347	microcontroller with on–chip DTMF generator; 64x8 RAM; 1.5Kx8 ROM; 13 I/O lines; I^2C bus
PCD3348	microcontroller for telephone sets; 256x8 RAM; 8Kx8 ROM; 20 I/O lines; I^2C bus
PCD3349	microcontroller with on–chip DTMF generator; 224x8 RAM; 4Kx8 ROM; 20 I/O lines; I^2C bus

MOBILE TELEPHONES

CA3089	FM IF system
MC3361	low power FM IF system
NE567	tone/frequency decoder PLL
NE570	compandor
NE571	compandor
NE572	programmable analog compandor
NE575	low voltage dual expander/single compandor or automatic level controller
NE602	double–balanced mixer and oscillator
NE604	low power narrow band FM IF system
NE605	low–power FM IF system
NE612	double balanced mixer and oscillator
NE614	low power FM IF system
PCB80C552	microcontroller; 256x8 RAM; 16–bit capture/ compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I^2C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C652	microcontroller; 256x8 RAM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C851	microcontroller; 128x8 RAM; 256x8 EEPROM; 1.2 to 12 MHz; 0 to +70 °C
PCB83C851	microcontroller; 128x8 RAM; 4Kx8 ROM; 256x8 EEPROM; 1.2 to 12 MHz; 0 to +70 °C
PCD3311A	DTMF/32–single tone generator with parallel data inputs; I^2C bus
PCD3312	DTMF generator; I^2C bus
PCD3315/502	10–number repertory dialler with redial and DTMF generator for PCD3312; 4x5 keypad; 10 Hz
PCF80C851	microcontroller; 128x8 RAM; 256x8 EEPROM; 1.2 to 12 MHz; –40 to +85 °C
PCF83C851	microcontroller; 128x8 RAM; 4Kx8 ROM; 256x8 EEPROM; 1.2 to 12 MHz; –40 to +85 °C
PCF8591	8–bit ADC/DAC; I^2C bus
SA571	compandor
SA572	programmable analog compandor
SA575	low voltage dual expander/single compandor or automatic level controller
SA602	double–balanced mixer and oscillator
SA604	low power narrow band FM IF system
SA605	low–power FM IF system
SE567	tone/frequency decoder PLL
TDA7050	150 mW BTL or 2x75 mW stereo audio power amplifier; low voltage
TDA7052	1 W BTL mono audio amplifier for portable applications
TDD1742	low power frequency synthesizer (LOPSY)
UMA1000	data processor for cellular radio (DPROC); I^2C bus
UMA1010	low–power universal frequency synthesizer for radio communications; 400 to 1150 MHz; I^2C bus
UMA1012	low power universal frequency synthesizer for radio communications; I^2C bus; up to 550 MHz

POWER SUPPLY ICs

TEA1081	supply circuit with power–down for telephone set peripherals

REMOTE I/O EXPANDERS

PCF8574	remote 8–bit I/O expander; I²C bus
PCF8574A	remote 8–bit I/O expander; I²C bus; different slave address

SPEECH SYNTHESIZERS

OM8000	standard Euro–card demo for voice synthesizer MEA8000
OM8200	speech demonstration board (PCF8200)
OM8201	speech demonstration box (PCF8200)
OM8209	update package for OM8010
OM8210	speech analysis/editing system (PCF8200)
PCF8200	voice synthesizer (CMOS); I²C bus

SPEECH–TRANSMISSION

TEA1042	telephone transmission circuit for handsfree loudspeaking
TEA1060	speech/transmission circuit with dialler interface; low impedance input for dynamic and magnetic microphones
TEA1061	speech/transmission circuit with dialler interface; high impedance input for electret and piezoelectric microphones
TEA1063	low voltage speech circuit with dialler interface and speech–controlled transmit level dynamic limiting
TEA1064	speech/transmission circuit with dialler interface and transmit level dynamic limiting
TEA1066	speech/transmission circuit with dialler interface
TEA1067	low voltage speech/transmission circuit with dialler interface; input suitable for all microphone types
TEA1068	speech/transmission circuit with dialler interface; input suitable for all microphone types

TONE RINGERS

PCD3360	programmable multi–tone ringer
UBA1094	3–tone ringer circuit for telephones

CORDLESS TELEPHONES

MC3361	low power FM IF system
NE567	tone/frequency decoder PLL
NE575	low voltage dual expander/single compandor or automatic level controller
PCD3315/534	microcontroller for cordless remote unit
PCD3344	microcontroller with on–chip DTMF generator; 224x8 RAM; 2Kx8 ROM; 20 I/O lines; I²C bus
PC74HC4046A	phase–locked loop with VCO

ISDN

PCB83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB2310	IST bus interface
PCB2320	data rate adapter
PCB2390	LTT–4B/3T echo canceller

ISDN (cont.)

PCB5010	single–chip digital signal processor; 8 MHz; on–chip program memory 987x40–bit ROM (mask programmable), 32x40–bit RAM (loaded via bus), 5x40–bit ROM (fixed load–RAM program); on–chip data memory 512x16–bit ROM (mask programmable), 2x(128x16–bit) static RAM
PCB5011	single–chip digital signal processor; 8 MHz; ROMless bond–out version; external program memory 1024x40–bit (expandable to 64Kx40–bit); external data memory 512x16–bit (read and write possible) plus 2x(128x16–bit) on–chip static RAM
PCF5010	single–chip digital signal processor; 8 MHz; on–chip program memory 987x40–bit ROM (mask programmable), 32x40–bit RAM (loaded via bus), 5x40–bit ROM (fixed load–RAM program); on–chip data memory 512x16–bit ROM (mask programmable), 2x(128x16–bit) static RAM
PCF5011	single–chip digital signal processor; 8 MHz; ROMless bond–out version; external program memory 1024x40–bit (expandable to 64Kx40–bit); external data memory 512x16–bit (read and write possible); plus 2x(128x16–bit) on–chip static RAM
SCC68070	microprocessor; 16/32–bit MPU; 68000 CPU; MMU; DMA; timer; UART; I^2C bus

RADIO PAGERS

PCA5000	decoder for POCSAG paging systems
TDA7052	1 W BTL mono audio amplifier for portable applications
UAA2033	digital paging receiver; low power

AMPLIFIERS

NE592	video amplifier
NE5539	ultra high frequency operational amplifier
NE5592	video amplifier
SE592	video amplifier
SE5539	ultra high frequency operational amplifier
TDA6100	8 MHz video output amplifier
μA733	differential video amplifier
μA733C	differential video amplifier

CAMERA ICs

SAA1043	universal sync generator
SAA1044	subcarrier coupler circuit
SAA1101	universal sync generator
SAD1019	multi–norm pulse pattern generator

CLOCK/CALENDAR

PCF8573	clock calendar; I^2C bus
PCF8583	clock calendar with 256x8–bit static RAM; I^2C bus

COLOUR DECODERS

SAA9051	digital multistandard TV decoder (S–DMSD) with separate chrominance and luminance inputs; I^2C bus
SAA9055	digital SECAM colour decoder; I^2C bus
TDA3501	video control combination
TDA3505	video control combination with automatic cut–off control; –(B–Y) and –(R–Y) input
TDA3506	video control combination with automatic cut–off control; +(B–Y) and +(R–Y) input
TDA3507	video control combination with automatic cut–off control; –(B–Y) and –(R–Y) input
TDA3510	PAL decoder
TDA3561A	PAL decoder
TDA3564	NTSC decoder without RGB inputs
TDA3565	PAL decoder
TDA3566	PAL/NTSC decoder
TDA3567	NTSC decoder
TDA3569	NTSC decoder with fast RGB blanking
TDA3590A	SECAM processor circuit (improved TDA3590)
TDA3592A	SECAM/PAL transcoder
TDA4510	PAL decoder
TDA4532	SECAM decoder
TDA4555	multistandard decoder for –(R–Y) and –(B–Y) signals
TDA4556	multistandard decoder for +(R–Y) and +(B–Y) signals
TDA4560	colour transient improvement circuit
TDA4565	colour transient improvement circuit; output signal delayed 180 μs less than that of TDA4560
TDA4570	NTSC decoder
TDA4580	video control combination with automatic cut–off control

COLOUR DECODERS (cont.)

TDA8390	single–chip PAL decoder and RGB matrix
TDA8442	I^2C bus interface for colour decoders
TDA8443	I^2C bus–controlled YUV/RGB interface circuit
TDA8443A	I^2C bus–controlled YUV/RGB interface circuit
TDA8451	P2CCD delay line and matrix for colour decoders
TDA8452	P2CCD filter combination for colour decoders
TDA8461	PAL/NTSC decoder; I^2C bus
TDA8490	SECAM decoder
TDA9080	video control combination circuit

DATA CONVERSION

ADCs, DACs

NE5150	RGB video DAC
NE5151	RGB video DAC
NE5152	RGB video DAC
PCF8591	8–bit ADC/DAC; I^2C bus
PNA7509	7–bit ADC; 22 MHz; 3–state output
PNA7518	8–bit multiplying DAC; 30 MHz
SAA9079	DAC for digital TV; low level
SAD1009	universal DAC (UDAC)
TDA1534	14–bit ADC
TDA1541A	dual 16–bit DAC
TDA1543	dual 16–bit economy DAC (I^2S bus format)
TDA1543A	dual 16–bit economy DAC (Japanese format)
TDA8444	octuple 6–bit DAC; I^2C bus
TDA8702	8–bit high–performance, high–speed video DAC; 30 MHz (max.); TTL–compatible
TDA8703	8–bit high–performance, high–speed ADC; 40 MHz (max.); TTL–compatible
TDA8706	6–bit video DAC with three analogue inputs, clamps and 3:1 multiplexer; for picture–in–picture; TTL compatible
TDA8708	8–bit video DAC; 30 MHz (max.); 1–out–of–3 input selector, clamp and automatic gain control
TDE8715	8–bit high–performance, high–speed ADC; 50 MHz (max.); ECL compatible

DIGITAL PROCESSING

SAA9050	digital multistandard TV decoder; I^2C bus
SAA9051	digital multistandard TV decoder (S–DMSD) with separate chrominance and luminance inputs; I^2C bus
SAA9055	digital SECAM colour decoder; I^2C bus
SAA9057	clock generator circuit
SAA9058	sample rate converter
SAA9060	video digital–to–analogue converter (VDAC)
SAA9062	digital deflection controller (DDC) option 1 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 50/60 Hz vertical frequency; 16 kHz line frequency; I^2C bus

DIGITAL PROCESSING (cont.)

SAA9063	digital deflection controller (DDC) option 2 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 50/60 Hz vertical frequency; 31 kHz line frequency; I²C bus
SAA9064	digital deflection controller (DDC) option 3 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 100/120 Hz vertical frequency; 31 kHz line frequency; I²C bus
SAA9068	picture–in–picture controller (PIPCO); I²C bus
SAA9069	digital vertical filter (DVF)
SAA9079	DAC for digital TV; low level

DISPLAY DRIVERS

PCF1303	18–element bar graph LCD driver (with analogue input)
PCF2100	LCD duplex driver; 40 segments
PCF2110	LCD duplex driver; 60 segments and 2 LEDs
PCF2111	LCD duplex driver; 64 segments
PCF2112	LCD driver; 32 segments
PCF2201	LCD flat panel row/column driver
PCF8566	universal LCD driver for low multiplex rates (1:1 to 1:4); max. 96 elements; I²C bus
PCF8576	universal LCD driver for low multiplex rates 1:1 to 1:4); max. 160 segments; I²C bus
PCF8577	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus
PCF8577A	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus; different slave address
PCF8578	LCD row/column driver for dot matrix graphic displays; 40 outputs, of which 24 are programmable; I²C bus
PCF8579	LCD column driver for dot matrix graphic displays; 40 column outputs; I²C bus
SAA1060	LED display/interface circuit
SAA1064	4–digit LED driver; I²C bus

EAST–WEST CORRECTION

TDA1082	east–west correction driver circuit
TDA8432	vertical deflection processor for computer–controlled TV receivers
TDA8433	vertical deflection processor for computer–controlled TV receivers; I²C bus; BIMOS successor to TDA8432

I²C BUS ICs

MAB8401	microcontroller; 128x8 RAM; bond–out version for MAB84XX family plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C

I²C BUS ICs (cont.)

MAB8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; 0 to +70 °C
MAF84A11	microcontroller; 64x8 RAM; 1Kx8 ROM; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A21	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A22	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A41	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A42	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A61	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
PCA80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA80C652	microcontroller; 256x8 RAM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +110 °C

I²C BUS ICs (cont.)	
PCA83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCB80C552	microcontroller; 256x8 RAM; 16–bit capture/ compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I²C bus; 1.2 to 12 MHZ; 0 to +70 °C
PCB83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCF80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF80C652	microcontroller; 256x8 RAM; serial I/O; UART: I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; 2 pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF84C00	microcontroller; 256x8 RAM; bond–out version PCF84CXX family; I²C bus
PCF84C12	low cost microcontroller; 64x8 RAM; 1Kx8 ROM
PCF84C21	microcontroller; 64x8 RAM; 2Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C41	microcontroller; 128x8 RAM; 4Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C81	microcontroller; 256x8 RAM; 8Kx8 ROM; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF84C85	microcontroller; 256x8 RAM; 8Kx8 ROM; 32 I/O; plus 8–bit LED driver; I²C bus; –40 to +85 °C
PCF8566	universal LCD driver for low multiplex rates (1:1 to 1:4); max. 96 elements; I²C bus
PCF8570	256x8–bit static RAM; I²C bus
PCF8571	128x8–bit static RAM; I²C bus
PCF8573	clock calendar; I²C bus
PCF8574	remote 8–bit I/O expander; I²C bus
PCF8576	universal LCD driver for low multiplex rates 1:1 to 1:4); max. 160 segments; I²C bus
PCF8577	LCD direct driver (32 segments) or duplex driver (64 segments); I²C bus
PCF8578	LCD row/column driver for dot matrix graphic displays; 40 outputs, of which 24 are programmable; I²C bus
PCF8579	LCD column driver for dot matrix graphic displays; 40 column outputs; I²C bus
PCF8582A	256x8–bit EEPROM; I²C bus

I²C BUS ICs (cont.)

PCF8583	clock calendar with 256x8–bit static RAM; I²C bus
PCF8591	8–bit ADC/DAC; I²C bus
SAA1064	4–digit LED driver; I²C bus
SAA1300	tuner switching circuit; I²C bus
SAA3028	high performance transcoder (RC–5) for infrared remote control; I²C bus
SAA5243E	enhanced computer–controlled teletext circuit (CCT); 625–line system; I²C bus (West European language version)
SAA5243H	enhanced computer–controlled teletext circuit (CCT); 625–line system; I²C bus (East European language version)
SAA5243K	enhanced computer–controlled teletext circuit (CCT); 625–line system; I²C bus (Arabic and English version)
SAA5243L	enhanced computer–controlled teletext circuit (CCT); 625–line system; I²C bus (Arabic and Hebrew version)
SAA5245A	525–lin system enhanced computer–controlled teletext circuit (USECCT); I²C bus (West European language version)
SAA5246E	single–chip CMOS teletext processor for 625–line system; I²C bus (West European language version)
SAA9041A	digital video teletext (DVTB) processor for Philips digital TV system (525 and 625–line systems); I²C bus (West European language version)
SAA9050	digital multistandard TV decoder; I²C bus
SAA9051	digital multistandard TV decoder (S–DMSD) with separate chrominance and luminance inputs; I²C bus
SAA9055	digital SECAM colour decoder; I²C bus
SAA9062	digital deflection controller (DDC) option 1 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 50/60 Hz vertical frequency; 16 kHz line frequency; I²C bus
SAA9063	digital deflection controller (DDC) option 2 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 50/60 Hz vertical frequency; 31 kHz line frequency; I²C bus
SAA9064	digital deflection controller (DDC) option 3 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 100/120 Hz vertical frequency; 31 kHz line frequency; I²C bus
SAA9068	picture–in–picture controller (PIPCO); I²C bus
SAB3035	computer interface for tuning and control (CITAC); 8 DACs; I²C bus
SAB3036	computer interface for tuning and control (CITAC); without DACs; I²C bus
SAB3037	computer interface for tuning and control (CITAC); 4 DACs; I²C bus
SAF1135	dataline decoder
TDA8370	synchronization processor for TV; I²C bus

I²C BUS ICs (cont.)

TDA8405	TV and video recorder stereo/dual sound processor; I²C bus
TDA8420	hi–fi stereo audio processor; I²C bus
TDA8421	hi–fi stereo audio processor; I²C bus
TDA8425	hi–fi stereo audio processor; I²C bus
TDA8433	vertical deflection processor for computer–controlled TV receivers; I²C bus; BIMOS successor to TDA8432
TDA8440	video/audio switch for CTV receivers; I²C bus
TDA8442	I²C bus interface for colour decoders
TDA8443	I²C bus–controlled YUV/RGB interface circuit
TDA8443A	I²C bus–controlled YUV/RGB interface circuit
TDA8444	octuple 6–bit DAC; I²C bus
TDA8461	PAL/NTSC decoder; I²C bus

MEMORIES

FCB61C61–35	65536x1–bit high–speed CMOS static RAM; access time 35 ns
FCB61C61–45	65536x1–bit high–speed CMOS static RAM; access time 45 ns
FCB61C61–55	65536x1–bit high–speed CMOS static RAM; access time 55 ns
FCB61C61L–35	65536x1–bit high–speed CMOS low–power static RAM; access time 35 ns
FCB61C61L–45	65536x1–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C61L–55	65536x1–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C62–35	16384x4–bit high–speed CMOS static RAM; access time 35 ns
FCB61C62–45	16384x4–bit high–speed CMOS static RAM; access time 45 ns
FCB61C62–55	16384x4–bit high–speed CMOS static RAM; access time 55 ns
FCB61C62L–35	16384x4–bit high–speed CMOS low–power static RAM; access time 35 ns
FCB61C62L–45	16384x4–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C62L–55	16384x4–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C65–45	8192x8–bit high–speed CMOS static RAM; access time 45 ns
FCB61C65–55	8192x8–bit high–speed CMOS static RAM; access time 55 ns
FCB61C65–70	8192x8–bit high–speed CMOS static RAM; access time 70 ns
FCB61C65L–45	8192x8–bit high–speed CMOS low–power static RAM; access time 45 ns
FCB61C65L–55	8192x8–bit high–speed CMOS low–power static RAM; access time 55 ns
FCB61C65L–70	8192x8–bit high–speed CMOS low–power static RAM; access time 70 ns
PCF8570	256x8–bit static RAM; I²C bus
PCF8571	128x8–bit static RAM; I²C bus
PCF8582A	256x8–bit EEPROM; I²C bus
PCF8583	clock calendar with 256x8–bit static RAM; I²C bus

MICROCONTROLLERS

CMOS 8–bit

PCA80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 12 MHz; –40 to +110 °C
PCA80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 12 MHz; –40 to +110 °C
PCA80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA80C652	microcontroller; 256x8 RAM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I²C bus; 1.2 to 12 MHZ; –40 to +110 °C
PCA83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCA83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; –40 to +110 °C
PCB80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 16 MHz; 0 to +70 °C
PCB80C39	microcontroller; 128x8 RAM; 1.0 to 15 MHz; 0 to +70 °C
PCB80C49	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 15 MHz; 0 to +70 °C
PCB80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 16 MHz; 0 to +70 °C
PCB80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB80C652	microcontroller; 256x8 RAM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I²C bus; 1.2 to 12 MHZ; 0 to +70 °C
PCB83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCB83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I²C bus; 1.2 to 12 MHz; 0 to +70 °C
PCF80C31BH–3	microcontroller; 128x8 RAM; 1.2 to 12 MHz; –40 to + 85 °C
PCF80C39	microcontroller; 128x8 RAM; 1.0 to 15 MHz; –40 to +85 °C
PCF80C49	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 15 MHz; –40 to +85 °C
PCF80C51BH–3	microcontroller; 128x8 RAM; 4Kx8 ROM; 1.2 to 12 MHz; –40 to +85 °C
PCF80C552	microcontroller; 256x8 RAM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit input to 10–bit ADC; I²C bus; 1.2 to 12 MHz; –40 to +85 °C

MICROCONTROLLERS (cont.)

CMOS 8–bit (cont.)

PCF80C652	microcontroller; 256x8 RAM; serial I/O; UART: I^2C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C552	microcontroller; 256x8 RAM; 8Kx8 ROM; 16–bit capture/compare timer/counter; watch–dog timer; two pulse–width modulated signals; 8–bit to 10–bit ADC; I^2C bus; 1.2 tc 12 MHZ; –40 to +85 °C
PCF83C652	microcontroller; 256x8 RAM; 8Kx8 ROM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; –40 to +85 °C
PCF83C654	microcontroller; 256x8 RAM; 16Kx8 ROM; serial I/O; UART; I^2C bus; 1.2 to 12 MHz; –40 to +85 °C

NMOS 8–bit

MAB8031AH–2	microcontroller; 128x8 RAM; 3.5 to 15 MHz; 0 to +70 °C
MAB8032AH	microcontroller; 256x8 RAM; 3.5 to 12 MHz; 0 to +70 °C
MAB8035HL	microcontroller; 64x8 RAM; 1.0 to 11 MHz; 0 to +70 °C
MAB8039HL	microcontroller; 128x8 RAM; 1.0 to 11 MHz; 0 to +70 °C
MAB8040HL	microcontroller; 256x8 RAM; 1.0 to 11 MHz; 0 to +70 °C
MAB8048H	microcontroller; 64x8 RAM; 1Kx8 ROM; 1.0 to 11 MHz; 0 to +70 °C
MAB8049H	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 11 MHz; 0 to +70 °C
MAB8050H	microcontroller; 256x8 RAM; 4Kx8 ROM; 1.0 to 11 MHz; 0 to +70 °C
MAB8051AH–2	microcontroller; 128x8 RAM; 4Kx8 ROM; 3.5 to 12 MHz; 0 to +70 °C
MAB8052AH	microcontroller; 256x8 RAM; 8Kx8 ROM; 3.5 to 12 MHz; 0 to +70 °C
MAB8401	microcontroller; 128x8 RAM; bond–out version for MAB84XX family plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAB8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; 0 to +70 °C
MAF80A31AH–2	microcontroller; 128x8 RAM; 3.5 to 12 MHz; –40 to +110 °C

MICROCONTROLLERS (cont.)

NMOS 8–bit (cont.)

MAF80A35HL	microcontroller; 64x8 RAM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A39HL	microcontroller; 128x8 RAM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A40HL	microcontroller; 256x8 RAM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A48H	microcontroller; 64x8 RAM; 1Kx8 ROM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A49H	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A50H	microcontroller; 256x8 RAM; 4Kx8 ROM; 1.0 to 10 MHz; –40 to +110 °C
MAF80A51AH–2	microcontroller; 128x8 RAM; 4Kx8 ROM; 3.5 to 12 MHz; –40 to +110 °C
MAF84A11	microcontroller; 64x8 RAM; 1Kx8 ROM; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A21	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A22	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A41	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A42	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF84A61	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 5.12 MHz; –40 to +110 °C
MAF8031AH–2	microcontroller; 128x8 RAM; 3.5 to 12 MHz; –40 to +85 °C
MAF8035HL	microcontroller; 64x8 RAM; 1.0 to 11 MHz; –40 to +85 °C
MAF8039HL	microcontroller; 128x8 RAM; 1.0 to 11 MHz; –40 to +85 °C
MAF8040HL	microcontroller; 256x8 RAM; 1.0 to 11 MHz; –40 to +85 °C
MAF8048H	microcontroller; 64x8 RAM; 1Kx8 ROM; 1.0 to 11 MHz; –40 to +85 °C
MAF8049H	microcontroller; 128x8 RAM; 2Kx8 ROM; 1.0 to 11 MHz; –40 to +85 °C
MAF8050H	microcontroller; 256x8 RAM; 4Kx8 ROM; 1.0 to 11 MHz; –40 to +85 °C
MAF8051AH–2	microcontroller; 128x8 RAM; 4Kx8 ROM; 3.5 to 12 MHz; –40 to +85 °C
MAF8411	microcontroller; 64x8 RAM; 1Kx8 ROM plus 8–bit LED driver; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8421	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8422	microcontroller; 64x8 RAM; 2Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I²C bus; 1.0 to 6 MHz; –40 to +85 °C

MICROCONTROLLERS (cont.)

NMOS 8–bit (cont.)

MAF8441	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 20 I/O lines; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8442	microcontroller; 128x8 RAM; 4Kx8 ROM plus 8–bit LED driver; 15 I/O lines; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C
MAF8461	microcontroller; 128x8 RAM; 6Kx8 ROM plus 8–bit LED driver; I^2C bus; 1.0 to 6 MHz; –40 to +85 °C

POWER SUPPLY ICs

SMPS controllers

TDA8380	SMPS controller
TEA1039	SMPS controller

PPS controllers

TDA2582	control circuit for PPS

RECORDER ICs

SAA4700	video recorder VPS dataline processor
SAA5235	dataline slicer for video cassette recorders
SAA5236	dataline slicer
SAD1009	universal DAC (UDAC)
SAF1135	dataline decoder
TDA2515	dual FM modulator/democulator for FM audio in VHS video recorders
TDA3724	SECAM identification circuit for video recorders
TDA3725	SECAM (L) chrominance signal processor for video recorders
TDA3730	frequency demodulator and drop–out compensator for video recorders
TDA3740	video processor/frequency modulator for video recorders
TDA3755	PAL/NTSC sync processor for video recorders (VHS system)
TDA3760	PAL chrominance signal processor for video recorders (VHS system)
TDA3765	NTSC chrominance signal processor for video recorders (VHS system)
TDA3766	PAL/NTSC chrominance signal processor for video recorders (VHS system)
TDA3771	video processor for video recorders
TDA3780	frequency modulator for video recorders
TDA3791	band selector and window detector
TDA4710H	VHS chrominance combination for video recorders
TDA4720	SECAM identification circuit for video recorders
TDA4730H	VHS chrominance combination for video recorders
TDA4770H	VHS feature circuit for video recorders
TEA2000	PAL/NTSC colour encoder

REMOTE I/O EXPANDERS

PCF8574	remote 8–bit I/O expander; I^2C bus
PCF8574A	remote 8–bit I/O expander; I^2C bus; different slave address

REMOTE CONTROLLERS

SAA3004	high performance transmitter (455 kHz) for infrared remote control; up to 448 commands
SAA3006	high performance transmitter (RC–5) for infrared remote control; up to 2048 commands
SAA3008	high performance transmitter (38 kHz) for infrared remote control; low voltage
SAA3027	infrared remote control transmitter (RC–5)
SAA3028	high performance transcoder (RC–5) for infrared remote control; I^2C bus
SAF1032	receiver/decoder for infrared remote control
SAF1039	transmitter for infrared remote control
TDA3047	high performance receiver for infrared remote control; positive output voltage
TDA3048	high performance receiver for infrared remote control; negative output voltage

SMALL SIGNAL COMBINATION

Black–white TV

TDA4500	small signal combination for B/W TV
TDA4503	small signal combination for B/W TV (improved TDA4500)

Colour TV

TDA4501	small signal combination with sound circuit for colour TV
TDA4502A	small signal combination with video switch for colour TV
TDA4504	small signal combination for multistandard colour TV (positive and negative modulation)
TDA4505E	small signal combination with sound circuit for colour TV
TDA4505M	small signal combination with circuit for electronic tuning, for colour TV
TDA8305	small signal combination for colour TV (improved TDA4505)

SOUND ICs

SAA7272	NICAM decoder (UK)
SAA7273	NICAM decoder extension
TBA120U	sound IF amplifier/demodulator for TV
TDA1013B	4 W audio power amplifier with DC volume control
TDA1015	1 to 4 W audio power amplifier with preamplifier
TDA1015T	0.5 W audio power amplifier with preamplifier
TDA1029	signal–sources switch (4 x two channels)
TDA1512A	12 to 20 W hi–fi audio power amplifier
TDA1514	40 W hi–fi power amplifier for digital audio (e.g. Compact Disc)

SOUND ICs (cont.)	
TDA1514A	40 W hi–fi power amplifier for digital audio (e.g. Compact Disc)
TDA1520B	20 W hi–fi audio power amplifier; complete SOAR protection
TDA1521	2x12 W hi–fi stereo audio power amplifier
TDA1521A	2x6 W hi–fi stereo audio power amplifier
TDA1521Q	2x12 W hi–fi stereo audio power amplifier
TDA1524A	stereo tone/volume control circuit
TDA1525	stereo tone/volume control circuit
TDA2543	AM sound IF circuit for French standard
TDA2545A	quasi–split–sound circuit
TDA2546A	quasi–split–sound circuit with 5,5 MHz demodulation
TDA2555	dual FM demodulator for TV sound; 8–stage limiter
TDA2556	quasi–split–sound circuit with dual FM sound demodulators
TDA2557	dual FM demodulator for TV sound; 5–stage limiter
TDA2611A	5 W audio power amplifier
TDA2613	6 W hi–fi audio power amplifier
TDA2795	TV stereo/dual sound identification decoder
TDA3800G	stereo/dual TV sound processor (dynamic selection)
TDA3800GS	stereo/dual TV sound processor (static selection)
TDA3803A	stereo/dual TV sound decoder
TDA3806	multiplex PLL stereo decoder
TDA3808	second audio programme (SAP) signal processor
TDA3810	spatial, stereo and pseudo–stereo sound circuit
TDA3825	single FM TV sound demodulator system with external AF input and mute
TDA3826	single FM TV sound demodulator system with mute and 6 dB AF amplifier
TDA8405	TV and video recorder stereo/dual sound processor; I^2C bus
TDA8420	hi–fi stereo audio processor; I^2C bus
TDA8421	hi–fi stereo audio processor; I^2C bus
TDA8425	hi–fi stereo audio processor; I^2C bus
SYNC PROCESSORS	
Horizontal	
TBA920S	horizontal combination
TDA2593	horizontal combination
TDA2594	horizontal combination with transmitter identification
TDA2595	horizontal combination with transmitter identification and protection circuits
Vertical	
TDA2653A	vertical deflection circuit; PIL–S4; 30AX systems and monitors
TDA2655B	vertical deflection circuit; colour and monochrome (90°)
TDA2658	vertical deflection circuit (90°)
TDA3653B	vertical deflection and guard circuit (90°)
TDA3653CQ	vertical deflection and guard circuit (90°)
TDA3654	vertical deflection and guard circuit (110°)
TDA3654Q	vertical deflection and guard circuit (110°)
TDA8432	vertical deflection processor for computer–controlled TV receivers

SYNC PROCESSORS (cont.)

Vertical (cont.)

TDA8433	vertical deflection processor for computer–controlled TV receivers; I²C bus; BIMOS successor to TDA8432

Horizontal/vertical

SAA9062	digital deflection controller (DDC) option 1 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 50/60 Hz vertical frequency; 16 kHz line frequency; I²C bus
SAA9063	digital deflection controller (DDC) option 2 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 50/60 Hz vertical frequency; 31 kHz line frequency; I²C bus
SAA9064	digital deflection controller (DDC) option 3 with on–chip ROM/RAM; ROM preprogrammed for 45AX picture tubes; RAM programmable for other picture tubes; 100/120 Hz vertical frequency; 31 kHz line frequency; I²C bus
TDA2577A	horizontal/vertical synchronization circuit
TDA2578A	horizontal/vertical synchronization circuit
TDA2579A	horizontal/vertical synchronization circuit
TDA3586	horizontal and vertical sync processor
TDA8370	synchronization processor for TV; I²C bus
TDA8372A	horizontal/vertical synchronization circuit with SMPS comparator

TEXT SYSTEMS

SAA5030	teletext video processor
SAA5045	gearing and address logic array (GALA) for teletext; 525–line system
SAA5230	teletext video processor (successor of SAA5030)
SAA5231	teletext video processor (successor of SAA5030)
SAA5235	dataline slicer for video cassette recorders
SAA5243E	enhanced computer–controlled teletext circuit (CCT); 625–line system; I²C bus (West European language version)
SAA5243H	enhanced computer–controlled teletext circuit (CCT); 625–line system; I²C bus (East European language version)
SAA5243K	enhanced computer–controlled teletext circuit (CCT); 625–line system; I²C bus (Arabic and English version)
SAA5243L	enhanced computer–controlled teletext circuit (CCT); 625–line system; I²C bus (Arabic and Hebrew version)
SAA5245A	525–lin system enhanced computer–controlled teletext circuit (USECCT); I²C bus (West European language version)
SAA5246E	single–chip CMOS teletext processor for 625–line system; I²C bus (West European language version)
SAA5250	interface for data acquisition and control
SAA5350	EUROM, CRT controller (CEPT standard)
SAA5351	EUROM 50 Hz, CRT controller

TEXT SYSTEMS (cont.)

SAA5355	FTFROM, CRT controller (525–line)
SAA5361	EUROM 60 Hz, CRT controller
SAA9041A	digital video teletext (DVTB) processor for Philips digital TV system (525 and 625–line systems); I²C bus (West European language version)
SAA9068	picture–in–picture controller (PIPCO); I²C bus
SAA9069	digital vertical filter (DVF)

TUNING CIRCUITS

SAA1057	radio tuning PLL frequency synthesizer (SYMO II)
SAA1300	tuner switching circuit; I²C bus
SAB3035	computer interface for tuning and control (CITAC); 8 DACs; I²C bus
SAB3036	computer interface for tuning and control (CITAC); without DACs; I²C bus
SAB3037	computer interface for tuning and control (CITAC); 4 DACs; I²C bus
SAB6456	sensitive 1 GHz divide–by–64/divide–by–256 switchable prescaler
SAB8726	2.6 GHz divide–by–2 prescaler
TDA5030A	mixer/oscillator for VHF tuner
TDA5230	VHF, UHF & hyperband mixer/oscillator for TV 4–band tuners
TDA5330	VHF, UHF & hyperband mixer/oscillator for TV and VCR 3–band tuners
TSA5510	1.3 GHz PLL frequency synthesizer

VIDEO/AUDIO SWITCH

TDA8440	video/audio switch for CTV receivers; I²C bus
TDA8443	I²C bus–controlled YUV/RGB interface circuit
TDA8443A	I²C bus–controlled YUV/RGB interface circuit
TDA9045	video processor and input selector

VIDEO GAMES

SAA1099	stereo sound generator for sound effects and music synthesis (uC–controlled)
TDA6800	video modulator circuit

VISION IF ICs

TDA2549	IF amplifier and demodulator for multistandard TV receivers
TDA8340	TV IF amplifier and demodulator
TDA8340Q	TV IF amplifier and demodulator
TDA8341	TV IF amplifier and demodulator
TDA8341Q	TV IF amplifier and demodulator

PLD

ADDRESS DECODERS

PLS163A	field programmable address decoder (FPAD) (12x9)

LOGIC ARRAYS

PLC16V8	erasable and one–time–programmable logic array (16x72x8)
PLC20V8	erasable and one–time–programmable logic array (20x72x8)
PLC153	erasable and one–time–programmable logic array (18x42x10)
PLC473	erasable–programmable logic array (EPLA) (20x24x11)
PLHS16L8	field–programmable AND array logic (16x64x8)
PLHS18P8	field–programmable AND array logic (18x72x8)
PLHS153	field programmable logic array (FPLA) (18x42x10)
PLHS473	field programmable logic array (FPLA) (20x24x11)
PLS100	field programmable logic array (FPLA) (16x48x8)
PLS101	field programmable logic array (FPLA) (16x48x8)
PLS153	field programmable logic array (FPLA) (18x42x10)
PLS153A	field programmable logic array (FPLA) (18x42x10)
PLS173	field programmable logic array (FPLA) (22x42x10)
PLUS153	field programmable logic array (FPLA) (18x42x10)
PLUS173	field programmable logic array (FPLA) (22x42x10)

LOGIC SEQUENCERS

PLS105	field programmable logic sequencer (FPLS) (16x48x8)
PLS105A	field programmable logic sequencer (FPLS) (16x48x8)
PLS155	field programmable logic sequencer (FPLS) (16x45x12) 4–bit register
PLS155A	field programmable logic sequencer (FPLS) (16x45x12) 4–bit register
PLS157	field programmable logic sequencer (FPLS) (16x45x12) 6–bit register
PLS159A	field programmable logic sequencer (FPLS) (16x45x12) 8–bit register
PLS167	field programmable logic sequencer (FPLS) (14x48x6)
PLS167A	field programmable logic sequencer (FPLS) (14x48x6); enhanced speed
PLS168	field programmable logic sequencer (FPLS) (12x48x8)
PLS168A	field programmable logic sequencer (FPLS) (12x48x8); enhanced speed
PLS179	field programmable logic sequencer (FLPS) (20x45x12)
PLUS405	field programmable logic sequencer (FPLS) (16x64x8)

PLD (cont.)

MACRO LOGIC

PLHS501	field programmable macro logic random logic unit (PML–52) (32x72x24)
PLHS502	field programmable macro sync/async register macro unit (PML–52) (20x24x11)

CMOS SystemGate

Family name	SystemGate
Technology	2 μ, Si-gate CMOS
Programmable layers	M1, M2
Supply voltage	2 to 6.0 V
Ambient temperature range	
Standard (PCF family)	−40 to +85°C
Extended (PCC family)	−55 to +125°C
Typical gate delay	
V_{DD} = 5 V: FO = 2; 2 mm wire	1.5 ns
I/O interface	CMOS, TTL

Family types	PCF0800 PCC0800	PCF1500 PCC1500	PCF2400 PCC2400
Gate count	832	1513	2380
Bonding pads	52	68	88
I/Os	44	60	80
Package types			
DIL	14, 16, 18, 20, 24, 28, 40	24, 28, 40,	24, 28, 40
SO	16L, 20, 24, 28	24, 28	
PLCC	44	44, 68	44, 68, 84
QFP	64	64, 80	64, 80
PGA			84, 120

CAE tools	Mentor, Valid, Daisy, PPDS[1], VAX[2]
Cells in the library	
Peripheral	53
Core	115
Soft Macros	50 (TTL series)
Library	Subset of SystemCell library
Support	
Design Centres	Hamburg, Paris, London, Stockholm, Taipei, Fontenay aux Roses
Technical Support Centres	Stuttgart, Zurich, Vienna, Milan, Barcelona, Eindhoven, Brussels

1) Philips Personal Design Station (based on IBM PC + graphic editor)
2) Mainframe

CMOS SystemGate II

Family name	SystemGate II
Technology	1.5 µ, Si-gate CMOS
Programmable layers	M1, M2
Supply voltage	3 to 5.5 V
Ambient temperature range	−40 to +85°C
Typical gate delay V_{DD} = 5 V; FO = 2; 2 mm wire	0.7 ns
I/O interface	CMOS, TTL

Family types	PCF3016	PCF3025	PCF3035	PCF3046	PCF3064	PCF3090	PCF3127
Gate count	1638	2478	3480	4628	6351	8976	12714
Bonding pads	64	80	96	116	140	172	204
I/Os	56	72	88	108	132	164	196
Package types							
DIL	20, 24, 28, 40	24, 28, 40,	24, 28, 40	24, 28, 40	40		
SO	24, 28	28					
PLCC	44, 68	44, 68, 84	44, 68, 84	44, 68, 84	44, 68, 84	44, 68, 84	44
QFP	64, 80	64, 80	64, 80	64, 80, 100	64, 80, 100, 120	120, 160	120, 160
PGA		120	84, 120	84, 120	68, 84, 120, 144	68, 84, 120, 144	144

CAE tools	Mentor, Valid, Daisy, PPDS[1], VAX[2]
Cells in the library	
Peripheral Core Soft Macros	See library manual
Library	Compatible with SystemGate library
Support	
Design Centres	Hamburg, Paris, London, Stockholm, Taipei, Fontenay aux Roses
Technical Support centres	Stuttgart, Zurich, Vienna, Milan, Barcelona, Eindhoven, Brussels

1) Philips Personal Design Station (based on IBM PC + graphic editor)
2) Mainframe

CMOS Sea of Gates

Family name	Sea of Gates
Technology	1,5 µ, Si–gate CMOS
Programmable layers	M1, M2
Supply voltage	3 to 5.5 V
Ambient temperature range	−40 to +85°C
Typical gate delay V_{DD} = 5 V: FO = 2; balanced drive	0.56 ns
I/O interface	CMOS, TTL

Family types	PGT200–						
	003	006	010	017	024	029	
Raw gates	3200	6728	10952	17672	24200	28800	
Used gates	960	2018	3286	5302	7260	8640	
Bonding pads	56	76	96	120	136	148	
I/Os	48	68	88	112	128	140	

Family types	PGT200–						
	033	042	056	073	109	145	180
Raw gates	33800	42632	52488	73728	109512	145000	180000
Used gates	10140	12790	15746	22118	32854	43500	54000
Bonding pads	160	180	204	232	280	320	356
I/Os	152	172	196	224	272	312	348

Package types	
DIL	20 – 40
SO	24, 28
PLCC	44 – 84
QFP	64 – 160
PGA	84 – 144

CMOS Sea of Gates (cont.)

CAE tools	Mentor, VLSI
Cells in the library	See library manual
Library	Compatible with SystemGate II library and VLSI VGT200* library
Support	
Design Centres	Hamburg, Paris, London, Stockholm, Taipei, Fontenay aux Roses
Technical Support centres	Stuttgart, Zurich, Vienna, Milan, Barcelona, Eindhoven, Brussels

The PGT200 family is an exact alternative to VLSI's VGT200* family

IC

* Registered trade mark of VLSI Technology Inc.

CMOS SystemCell II

Family name	SystemCell II
Technology	1.5 µ, Si–gate CMOS
Programmable layers	M1, M2
Supply voltage	3 to 5.5 V
Ambient temperature range (PCF family)	−40 to +85°C
Typical gate delay V_{DD} = 5 V; FO = 2; 2 mm wire	0.7 ns
I/O interface	CMOS, TTL
Range	20K gate–equivalents
Package types	
DIL	14, 16, 18, 20, 24, 28, 40
SO	14, 16, 16L, 20, 24, 28
PLCC	44, 68, 84
QPF	64, 80, 100, 120, 144
PGA	68, 84, 120, 144
CAE tools	Mentor, Valid, Daisy, PPDS[1], VAX[2]
Cells in the library Peripheral Core Soft Macros Complex Analog	See library manual
Library	Compatible with SystemGate II and SystemCell
Support	
Design Centres	Hamburg, Paris, London, Stockholm, Taipei, Fontenay aux Roses
Technical Support Centres	Stuttgart, Zurich, Vienna, Milan, Barcelona, Eindhoven, Brussels
Second source	ES2

1) Philips Personal Design Station (based on IBM PC + graphic editor)
2) Mainframe

Alphanumeric Index

In the alphanumeric index six columns are given (see next page). The first column shows the full (extended) IC type numbers in alpha–numeric sequence. The second, third and fourth columns give package information; the fifth column is a reference to the catalogue page number where the functional placing, the basic type number and brief description of the IC are given. The sixth column refers to the relevant Handbook (IC.., see list below) in which the IC data is published. Where the data is available only on loose data sheet or if handbook data has been superseded by a loose data sheet, this column shows 'DS'; a hyphen (–) indicates that **NO** data are available at date of printing this publication.

code	handbook title
IC01	Radio, audio and associated systems Bipolar, MOS
IC02a/b	Video and associated systems Bipolar, MOS
IC03	ICs for Telecom Bipolar, MOS Subscriber sets, Cordless telephones
IC04	HE4000B logic family CMOS
IC05	HE4000B logic family – uncased ICs CMOS
IC06	High–speed CMOS; PC74HC/HCT/HCU Logic family
IC07	not yet issued
IC08	ECL 10K and 100K logic families
IC09N	TTL logic series
IC10	Memories MOS, TTL, ECL
IC11	Linear products
Supplement to IC11	Linear products
IC12	I^2C–bus compatible ICs
IC13	Semi–custom Programmable Logic Devices (PLD)
IC14	Microcontrollers and peripherals Bipolar, MOS
IC15	FAST TTL logic series
IC16	CMOS integrated circuits for clocks and watches
IC17	ICs for Telecom Bipolar, MOS Radio pagers, Mobile telephones, ISDN
IC18	Microprocessors and peripherals
IC19	Data communication products

PACKAGE INFORMATION

The alphanumeric index provides package information in three columns: package code; number of pins, and pin position (an indication of the pin configuration). Brief descriptions of the packages are given in the following table, some packages may have internal heat spreaders.

package code	description	pin position
SOT18/13	3–lead cylindrical; metal (TO18)	CYL
SOT18/17	4–lead cylindrical; metal (TO72)	CYL
SOT20	4–lead single in–line; plastic	SIL
SOT27	14–lead dual in–line; plastic	DIL
SOT32	3 lead single in–line (TO126)	SIL
SOT38;A;D;WE.2;Z		
	16–lead dual in–line; plastic	DIL
SOT38BE;WBE	16–lead dual in–line; plastic (opposite bent leads)	DIL
SOT58	16–lead quadruple in–line; plastic	QIL
SOT73	14–lead dual in–line; ceramic (CERDIP)	DIL
SOT74;B	16–lead dual in–line; ceramic (CERDIP)	DIL
SOT87B	28–lead dual in–line; metal ceramic (CERDIL)	DIL
SOT94	24–lead dual in–line; ceramic (CERDIP)	DIL
SOT96A;C	8–lead mini–pack; plastic (SO8)	SO8
SOT97A	8–lead dual in–line; plastic	DIL
SOT101A;B	24–lead dual in–line; plastic	DIL
SOT102;H;K;M	18–lead dual in–line; plastic	DIL
SOT102G;GE	18–lead dual in–line; plastic; shortened leads	DIL
SOT108A	14–lead mini–pack; plastic (SO14)	SO14
SOT109A	16–lead mini–pack; plastic (SO16)	SO16
SOT110;B	9–lead single in–line; plastic	SIL
SOT116	22–lead dual in–line; plastic	DIL
SOT117	28–lead dual in–line; plastic	DIL
SOT129	40–lead dual in–line; plastic	DIL
SOT131;A;B	9–lead single in–line; plastic power	SIL
SOT133;B	18–lead dual in–line; ceramic (CERDIP)	DIL
SOT135A	28–lead dual in–line; ceramic (CERDIP)	DIL
SOT136A	28–lead mini–pack; plastic (SO28)	SO28
SOT137;A	24–lead mini–pack; plastic (SO24)	SO24
SOT141B;C;CEA	13–lead SIL–bent–to–DIL; plastic power	SBD
SOT142	9–lead single in–line; plastic	SIL
SOT144	8–lead micro–flat–pack; plastic	MFP
SOT146;A;E;EE7	20–lead dual in–line; plastic	DIL
SOT150	12–lead dual in–line; plastic with metal cooling fin	DIL
SOT157	9–lead SIL–bent–to–DIL; plastic power	SBD
SOT158A	40–lead mini–pack; plastic (VSO40)	VSO40
SOT158B	40–lead mini–pack; plastic (opposite bent leads) (VSO40)	VSO40
SOT162;A	16–lead mini–pack; plastic (SO16L)	SO16L
SOT163;A	20–lead mini–pack; plastic (SO20)	SO20
SOT176	8–lead mini–pack; plastic (SO–8L)	SO8L
SOT187	44–lead plastic leaded chip carrier; 'pedestal' version	PLCC
SOT187AA	44–lead plastic leaded chip carrier; 'pocket' version	PLCC
SOT188	68–lead plastic leaded chip carrier; 'pedestal' version	PLCC
SOT188AA	68–lead plastic leaded chip carrier; 'pocket' version	PLCC
SOT189	84–lead plastic leaded chip carrier; 'pedestal' version	PLCC
SOT189AA	84–lead plastic leaded chip carrier; 'pocket' version	PLCC
SOT190	56–lead mini–pack; plastic (VSO56)	VSO56
SOT196A	48–lead quad flat–pack; plastic	QFP
SOT201	32–lead dual in–line; plastic	DIL
SOT205A	44–lead quad flat–pack; plastic	QFP

package code	description	pin position
SOT208	64–lead quad flat–pack; plastic	QFP
SOT213	28–lead mini–pack; plastic (SO28, extra large)	SO28XLG
SOT215	40–lead dual in–line piggy–back; plastic	PB
SOT219	80–lead quad flat–pack; plastic	QFP
SOT220	120–lead quad flat–pack; plastic	QFP
SOT224	22–lead skinny dual in–line; plastic	DIL
SOT239	24–lead mini–pack; plastic (J–bent leads)	SOJ24
FO75	64–pin grid array package without heatsink	PGA
FO99	64–pin grid array package with heatsink	PGA
FO108	144–pin grid array package without heatsink	PGA
FO128	144–pin grid array package with heatsink	PGA
A	plastic leaded chip carrier	PLCC
EC	metal can	TO46/7
D	plastic mini–pack (SO)	SOxx
FA	dual in–line; ceramic (CERDIP) with quartz window	DIL
F;FE	dual in–line; ceramic (CERDIP)	DIL
H	metal can	HEADER
I	dual in–line; metal ceramic (hermetic)(CERDIL)	DIL
N	dual in–line; plastic	DIL
Y	ceramic flat–pack	HLCC/W
–	chip–on–film frame carrier	FFC
–	tape–automatic bonding	TAB
–	28–lead "Piggy–back" with 28–lead EPROM on top	PB
Other abbreviations:		
PADS	connecting surfaces on uncased ICs	
PC–board	printed circuit board	
UW	unsawn wafer	

IC

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
ADC0801–1F	F	20	CERDIP	80	IC11
ADC0801–1LCF	F	20	CERDIP	80	IC11
ADC0801–1LCN	N	20	PLDIL	80	IC11
ADC0802–1F	F	20	CERDIP	80	IC11
ADC0802–1LCF	F	20	CERDIP	80	IC11
ADC0802–1LCN	N	20	PLDIL	80	IC11
ADC0803–1CD	D	20	SO20	80	IC11
ADC0803–1LCD	D	20	SO	80	IC11
ADC0803–1LCF	FL	20	CERDIP	80	IC11
ADC0803–1LCN	FL	20	CERDIP	80	IC11
ADC0804–1CD	D	20	SO	80	IC11
ADC0804–1CN	N	20	PLDIL	80	IC11
ADC0804–1LCD	D	20	SO	80	IC11
ADC0804–1LCN	N	20	PLDIL	80	IC11
ADC0805–1LCN	N	20	PLDIL	80	IC11
ADC0820BNED	D	20	SO	80	IC11
ADC0820BNEN	N	20	PLDIL	80	IC11
ADC0820BSAD	D	20	SO	80	IC11
ADC0820BSAN	N	20	PLDIL	80	IC11
ADC0820BSEF	F	20	CERDIP	80	IC11
ADC0820CNED	DL	20	SO	80	IC11
ADC0820CNEN	NL	20	PLDIL	80	IC11
ADC0820CSAD	D	20	SO	80	IC11
ADC0820CSAN	N	20	PLDIL	80	IC11
ADC0820CSEF	F	20	CERDIP	80	IC11
AM26LS31CD	D	16	SO16	91	IC19
AM26LS31CN	N	16	PLDIL	91	IC19
AM26LS31ID	D	16	SO16	91	IC19
AM26LS31IN	N	16	PLDIL	91	IC19
AM26LS31MF	F	16	CERDIP	91	IC19
AM26LS31MN	N	16	PLDIL	91	IC19
AM6012D	DL	20	SO20	80	–
AM6012F	FL	20	CERDIP	80	IC11
CA3089N	N	16	PLDIP	93;103;110	IC11
DAC08AF	F	16	CERDIP	80	IC11
DAC08CF	F	16	CERDIP	80	IC11
DAC08CN	N	16	PLDIL	80	IC11
DAC08ED	D	16	SO	80	IC11
DAC08EF	F	16	CERDIP	80	IC11
DAC08EN	N	16	PLDIL	80	IC11
DAC08F	F	16	CERDIP	80	IC11
DAC08HF	F	16	CERDIP	80	IC11
DAC08HN	N	16	PLDIL	80	IC11
FCB61C61–35J	SOT239	24	SOJ24	66;108;119	DS
FCB61C61–35P	SOT224	22	DIL	66;108;119	DS
FCB61C61–45J	SOT239	24	SOJ24	66;108;119	DS
FCB61C61–45P	SOT224	22	DIL	66;108;119	DS
FCB61C61–55J	SOT239	24	SOJ24	66;108;119	DS
FCB61C61–55P	SOT224	22	DIL	66;108;119	DS
FCB61C61L–35J	SOT239	24	SOJ24	66;108;119	DS
FCB61C61L–35P	SOT224	22	DIL	66;108;119	DS
FCB61C61L–45J	SOT239	24	SOJ24	66;108;119	DS
FCB61C61L–45P	SOT224	22	DIL	66;108;119	DS
FCB61C61L–55J	SOT239	24	SOJ24	66;108;119	DS
FCB61C61L–55P	SOT224	22	DIL	66;108;119	DS
FCB61C62–35J	SOT239	24	SOJ24	66;109;119	DS
FCB61C62–35P	SOT224	22	DIL	66;109;119	DS

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
FCB61C62–45J	SOT239	24	SOJ24	66;109;119	DS
FCB61C62–45P	SOT224	22	DIL	66;109;119	DS
FCB61C62–55J	SOT239	24	SOJ24	66;109;119	DS
FCB61C62–55P	SOT224	22	DIL	66;109;119	DS
FCB61C62L–35J	SOT239	24	SOJ24	66;109;119	DS
FCB61C62L–35P	SOT224	22	DIL	66;109;119	DS
FCB61C62L–45J	SOT239	24	SOJ24	66;109;119	DS
FCB61C62L–45P	SOT224	22	DIL	66;109;119	DS
FCB61C62L–55J	SOT239	24	SOJ24	66;109;119	DS
FCB61C62L–55P	SOT224	22	DIL	66;109;119	DS
FCB61C65–45P	SOT117	28	DIL	66;100;109;119	DS
FCB61C65–45T	SOT213	28	SOXL28	66;100;109;119	DS
FCB61C65–55P	SOT117	28	DIL	66;100;109;119	DS
FCB61C65–55T	SOT213	28	SOXL28	66;100;109;119	DS
FCB61C65–70P	SOT117	28	DIL	66;100;109;119	DS
FCB61C65–70T	SOT213	28	SOXL28	66;100;109;119	DS
FCB61C65L–45P	SOT117	28	DIL	66;100;109;119	DS
FCB61C65L–45T	SOT213	28	SOXL28	66;100;109;119	DS
FCB61C65L–55P	SOT117	28	DIL	66;100;109;119	DS
FCB61C65L–55T	SOT213	28	SOXL28	66;100;109;119	DS
FCB61C65L–70P	SOT117	28	DIL	66;100;109;119	DS
FCB61C65L–70T	SOT213	28	SOXL28	66;100;109;119	DS
HEC4001BDB	SOT73	14	DIL	12	IC04
HEC4002BDB	SOT73	14	DIL	12	IC04
HEC4007UBDB	SOT73	14	DIL	10;13	IC04
HEC40097BDB	SOT74	16	DIL	10	IC04
HEC40098BDB	SOT74	16	DIL	10	IC04
HEC4011BDB	SOT73	14	DIL	12	IC04
HEC4012BDB	SOT73	14	DIL	12	IC04
HEC4013BDB	SOT73	14	DIL	11	IC04
HEC4014BDB	SOT74	16	DIL	14	IC04
HEC4015BDB	SOT74	16	DIL	14	IC04
HEC4016BDB	SOT73	14	DIL	14	IC04
HEC4017BDB	SOT74	16	DIL	10	IC04
HEC40174BDB	SOT74	16	DIL	11	IC04
HEC40175BDB	SOT74	16	DIL	11	IC04
HEC4019BDB	SOT74	16	DIL	13	IC04
HEC40194BDB	SOT74	16	DIL	14	IC04
HEC40195BDB	SOT74	16	DIL	14	IC04
HEC4020BDB	SOT74	16	DIL	10	IC04
HEC4023BDB	SOT73	14	DIL	12	IC04
HEC4024BDB	SOT73	14	DIL	10	IC04
HEC4025BDB	SOT73	14	DIL	12	IC04
HEC4027BDB	SOT74	16	DIL	11	IC04
HEC4030BDB	SOT73	14	DIL	12	IC04
HEC4035BDB	SOT74	16	DIL	14	IC04
HEC4040BDB	SOT74	16	DIL	10	IC04
HEC4042BDB	SOT74	16	DIL	13	IC04
HEC4047BDB	SOT73	14	DIL	13	IC04
HEC4049BDB	SOT74	16	DIL	10	IC04
HEC4050BDB	SOT74	16	DIL	10	IC04
HEC4051BDB	SOT74	16	DIL	11;13	IC04
HEC4066BDB	SOT73	14	DIL	14	IC04
HEC4068BDB	SOT73	14	DIL	12	IC04
HEC4069UBDB	SOT73	14	DIL	13	IC04
HEC4070BDB	SOT73	14	DIL	12	IC04
HEC4071BDB	SOT73	14	DIL	12	IC04

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
HEC4073BDB	SOT73	14	DIL	11	IC04
HEC4081BDB	SOT73	14	DIL	11	IC04
HEC4093BDB	SOT73	14	DIL	14	IC04
HEC4094BDB	SOT74	16	DIL	14	IC04
HEC4505BDB	SOT73	14	DIL	13	IC04
HEC4510BDB	SOT74	16	DIL	10	IC04
HEC4511BDB	SOT74	16	DIL	11	IC04
HEC4512BDB	SOT74	16	DIL	13	IC04
HEC4519BDB	SOT74	16	DIL	13	IC04
HEC4520BDB	SOT74	16	DIL	10	IC04
HEC4528BDB	SOT74	16	DIL	13	IC04
HEC4539BDB	SOT74	16	DIL	13	IC04
HEC4541BDB	SOT73	14	DIL	14	IC04
HEC4556BDB	SOT74	16	DIL	11	IC04
HEC4557BDB	SOT74	16	DIL	14	IC04
HEC4585BDB	SOT74	16	DIL	10	IC04
HEC4750VD	SOT135A	28	DIL	14	IC04
HEC4750VDB	SOT135A	28	DIL	14	IC04
HEC4751VD	SOT135A	28	DIL	10	IC04
HEC4751VDB	SOT135A	28	DIL	10	IC04
HEF4000BD	SOT73	14	DIL	12	IC04
HEF4000BP	SOT27	14	DIL	12	IC04
HEF4000BT	SOT108A	14	SO14	12	IC04
HEF4000BU	–	12	PADS	12	IC05
HEF4001BD	SOT73	14	DIL	12	IC04
HEF4001BP	SOT27	14	DIL	12	IC04
HEF4001BT	SOT108A	14	SO14	12	IC04
HEF4001BU	–	14	PADS	12	IC05
HEF4001UBD	SOT73	14	DIL	12	IC04
HEF4001UBP	SOT27	14	DIL	12	IC04
HEF4001UBT	SOT108A	14	SO14	12	IC04
HEF4001UBU	–	14	PADS	12	IC05
HEF4002BD	SOT73	14	DIL	12	IC04
HEF4002BP	SOT27	14	DIL	12	IC04
HEF4002BT	SOT108A	14	SO14	12	IC04
HEF4002BU	–	12	PADS	12	IC05
HEF4006BD	SOT73	14	DIL	14	IC04
HEF4006BP	SOT27	14	DIL	14	IC04
HEF4006BT	SOT108A	14	SO14	14	IC04
HEF4006BU	–	13	PADS	14	IC05
HEF4007UBD	SOT73	14	DIL	10;13	IC04
HEF4007UBP	SOT27	14	DIL	10;13	IC04
HEF4007UBT	SOT108A	14	SO14	10;13	IC04
HEF4007UBU	–	14	PADS	10;13	IC05
HEF4008BD	SOT74	16	DIL	10	IC04
HEF4008BP	SOT38Z	16	DIL	10	IC04
HEF4008BT	SOT109A	16	SO16	10	IC04
HEF4008BU	–	16	PADS	10	IC05
HEF40097BD	SOT74	16	DIL	10	IC04
HEF40097BP	SOT38Z	16	DIL	10	IC04
HEF40097BT	SOT109A	16	SO16	10	IC04
HEF40097BU	–	16	PADS	10	IC05
HEF40098BD	SOT74	16	DIL	10	IC04
HEF40098BP	SOT38Z	16	DIL	10	IC04
HEF40098BT	SOT109A	16	SO16	10	IC04
HEF40098BU	–	16	PADS	10	IC05
HEF40106BD	SOT73	14	DIL	14	IC04

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
HEF40106BP	SOT27	14	DIL	14	IC04
HEF40106BT	SOT108A	14	SO14	14	IC04
HEF40106BU	–	14	PADS	14	IC05
HEF4011BD	SOT73	14	DIL	12	IC04
HEF4011BP	SOT27	14	DIL	12	IC04
HEF4011BT	SOT108A	14	SO14	12	IC04
HEF4011BU	–	14	PADS	12	IC05
HEF4011UBD	SOT73	14	DIL	12	IC04
HEF4011UBP	SOT27	14	DIL	12	IC04
HEF4011UBT	SOT108A	14	SO14	12	IC04
HEF4011UBU	–	14	PADS	12	IC05
HEF4012BD	SOT73	14	DIL	12	IC04
HEF4012BP	SOT27	14	DIL	12	IC04
HEF4012BT	SOT108A	14	SO14	12	IC04
HEF4012BU	–	12	PADS	12	IC05
HEF4013BD	SOT73	14	DIL	11	IC04
HEF4013BP	SOT27	14	DIL	11	IC04
HEF4013BT	SOT108A	14	SO14	11	IC04
HEF4013BU	–	14	PADS	11	IC05
HEF4014BD	SOT74	16	DIL	14	IC04
HEF4014BP	SOT38Z	16	DIL	14	IC04
HEF4014BT	SOT109A	16	SO16	14	IC04
HEF4014BU	–	16	PADS	14	IC05
HEF4015BD	SOT74	16	DIL	14	IC04
HEF4015BP	SOT38Z	16	DIL	14	IC04
HEF4015BT	SOT109A	16	SO16	14	IC04
HEF4015BU	–	16	PADS	14	IC05
HEF4016BD	SOT73	14	DIL	14	IC04
HEF4016BP	SOT27	14	DIL	14	IC04
HEF4016BT	SOT108A	14	SO14	14	IC04
HEF4016BU	–	14	PADS	14	IC05
HEF40160BD	SOT74	16	DIL	10	IC04
HEF40160BP	SOT38Z	16	DIL	10	IC04
HEF40160BT	SOT109A	16	SO16	10	IC04
HEF40160BU	–	16	PADS	10	IC05
HEF40161BD	SOT74	16	DIL	10	IC04
HEF40161BP	SOT38Z	16	DIL	10	IC04
HEF40161BT	SOT109A	16	SO16	10	IC04
HEF40161BU	–	16	PADS	10	IC05
HEF40162BD	SOT74	16	DIL	11	IC04
HEF40162BP	SOT38Z	16	DIL	11	IC04
HEF40162BT	SOT109A	16	SO16	11	IC04
HEF40162BU	–	16	PADS	11	IC05
HEF40163BD	SOT74	16	DIL	11	IC04
HEF40163BP	SOT38Z	16	DIL	11	IC04
HEF40163BT	SOT109A	16	SO16	11	IC04
HEF40163BU	–	16	PADS	11	IC05
HEF4017BD	SOT74	16	DIL	10	IC04
HEF4017BP	SOT38Z	16	DIL	10	IC04
HEF4017BT	SOT109A	16	SO16	10	IC04
HEF4017BU	–	16	PADS	10	IC05
HEF40174BD	SOT74	16	DIL	11	IC04
HEF40174BP	SOT38Z	16	DIL	11	IC04
HEF40174BT	SOT109A	16	SO16	11	IC04
HEF40174BU	–	16	PADS	11	IC05
HEF40175BD	SOT74	16	DIL	11	IC04
HEF40175BP	SOT38Z	16	DIL	11	IC04

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HEF40175BT	SOT109A	16	SO16	11	IC04
HEF40175BU	–	16	PADS	11	IC05
HEF4018BD	SOT74	16	DIL	10	IC04
HEF4018BP	SOT38Z	16	DIL	10	IC04
HEF4018BT	SOT109A	16	SO16	10	IC04
HEF4018BU	–	16	PADS	10	IC05
HEF4019BD	SOT74	16	DIL	13	IC04
HEF4019BP	SOT38Z	16	DIL	13	IC04
HEF4019BT	SOT109A	16	SO16	13	IC04
HEF4019BU	–	16	PADS	13	IC05
HEF40192BD	SOT74	16	DIL	11	IC04
HEF40192BP	SOT38Z	16	DIL	11	IC04
HEF40192BT	SOT109A	16	SO16	11	IC04
HEF40192BU	–	16	PADS	11	IC05
HEF40193BD	SOT74	16	DIL	11	IC04
HEF40193BP	SOT38Z	16	DIL	11	IC04
HEF40193BT	SOT109A	16	SO16	11	IC04
HEF40193BU	–	16	PADS	11	IC05
HEF40194BD	SOT74	16	DIL	14	IC04
HEF40194BP	SOT38Z	16	DIL	14	IC04
HEF40194BT	SOT109A	16	SO16	14	IC04
HEF40194BU	–	16	PADS	14	IC05
HEF40195BD	SOT74	16	DIL	14	IC04
HEF40195BP	SOT38Z	16	DIL	14	IC04
HEF40195BT	SOT109A	16	SO16	14	IC04
HEF40195BU	–	16	PADS	14	IC05
HEF4020BD	SOT74	16	DIL	10	IC04
HEF4020BP	SOT38Z	16	DIL	10	IC04
HEF4020BT	SOT109A	16	SO16	10	IC04
HEF4020BU	–	16	PADS	10	IC05
HEF4021BD	SOT74	16	DIL	14	IC04
HEF4021BP	SOT38Z	16	DIL	14	IC04
HEF4021BT	SOT109A	16	SO16	14	IC04
HEF4021BU	–	16	PADS	14	IC05
HEF4022BD	SOT74	16	DIL	10	IC04
HEF4022BP	SOT38Z	16	DIL	10	IC04
HEF4022BT	SOT109A	16	SO16	10	IC04
HEF4022BU	–	14	PADS	10	IC05
HEF4023BD	SOT73	14	DIL	12	IC04
HEF4023BP	SOT27	14	DIL	12	IC04
HEF4023BT	SOT108A	14	SO14	12	IC04
HEF4023BU	–	14	PADS	12	IC05
HEF4024BD	SOT73	14	DIL	10	IC04
HEF4024BP	SOT27	14	DIL	10	IC04
HEF4024BT	SOT108A	14	SO14	10	IC04
HEF4024BU	–	11	PADS	10	IC05
HEF40240BP	SOT146	20	DIL	10	IC04
HEF40240BT	SOT163A	20	SO20	10	IC04
HEF40240BU	–	20	PADS	10	IC05
HEF40244BP	SOT146	20	DIL	10	IC04
HEF40244BT	SOT163A	20	SO20	10	IC04
HEF40244BU	–	20	PADS	10	IC05
HEF40245BP	SOT146	20	DIL	10	IC04
HEF40245BT	SOT163A	20	SO20	10	IC04
HEF40245BU	–	20	PADS	10	IC05
HEF4025BD	SOT73	14	DIL	12	IC04
HEF4025BP	SOT27	14	DIL	12	IC04

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
HEF4025BT	SOT108A	14	SO14	12	IC04
HEF4025BU	–	14	PADS	12	IC05
HEF4027BD	SOT74	16	DIL	11	IC04
HEF4027BP	SOT38Z	16	DIL	11	IC04
HEF4027BT	SOT109A	16	SO16	11	IC04
HEF4027BU	–	16	PADS	11	IC05
HEF4028BD	SOT74	16	DIL	11	IC04
HEF4028BP	SOT38Z	16	DIL	11	IC04
HEF4028BT	SOT109A	16	SO16	11	IC04
HEF4028BU	–	16	PADS	11	IC05
HEF4029BD	SOT74	16	DIL	10	IC04
HEF4029BP	SOT38Z	16	DIL	10	IC04
HEF4029BT	SOT109A	16	SO16	10	IC04
HEF4029BU	–	16	PADS	10	IC05
HEF4030BD	SOT73	14	DIL	12	IC04
HEF4030BP	SOT27	14	DIL	12	IC04
HEF4030BT	SOT108A	14	SO14	12	IC04
HEF4030BU	–	14	PADS	12	IC05
HEF4031BD	SOT74	16	DIL	14	IC04
HEF4031BP	SOT38Z	16	DIL	14	IC04
HEF4031BT	SOT109A	16	SO16	14	IC04
HEF4031BU	–	9	PADS	14	IC05
HEF4035BD	SOT74	16	DIL	14	IC04
HEF4035BP	SOT38Z	16	DIL	14	IC04
HEF4035BT	SOT109A	16	SO16	14	IC04
HEF4035BU	–	16	PADS	14	IC05
HEF40373BP	SOT146	20	DIL	13	IC04
HEF40373BT	SOT163A	20	SO20	13	IC04
HEF40373BU	–	20	PADS	13	IC05
HEF40374BP	SOT146	20	DIL	11	IC04
HEF40374BT	SOT163A	20	SO20	11	IC04
HEF40374BU	–	20	PADS	11	IC05
HEF4040BD	SOT74	16	DIL	10	IC04
HEF4040BP	SOT38Z	16	DIL	10	IC04
HEF4040BT	SOT109A	16	SO16	10	IC04
HEF4040BU	–	16	PADS	10	IC05
HEF4041BD	SOT73	14	DIL	10	IC04
HEF4041BP	SOT27	14	DIL	10	IC04
HEF4041BT	SOT108A	14	SO14	10	IC04
HEF4041BU	–	14	PADS	10	IC05
HEF4042BD	SOT74	16	DIL	13	IC04
HEF4042BP	SOT38Z	16	DIL	13	IC04
HEF4042BT	SOT109A	16	SO16	13	IC04
HEF4042BU	–	16	PADS	13	IC05
HEF4043BD	SOT74	16	DIL	13	IC04
HEF4043BP	SOT38Z	16	DIL	13	IC04
HEF4043BT	SOT109A	16	SO16	13	IC04
HEF4043BU	–	15	PADS	13	IC05
HEF4044BD	SOT74	16	DIL	13	IC04
HEF4044BP	SOT38Z	16	DIL	13	IC04
HEF4044BT	SOT109A	16	SO16	13	IC04
HEF4044BU	–	15	PADS	13	IC05
HEF4046BD	SOT74	16	DIL	14	IC04
HEF4046BP	SOT38Z	16	DIL	14	IC04
HEF4046BT	SOT109A	16	SO16	14	IC04
HEF4046BU	–	16	PADS	14	IC05
HEF4047BD	SOT73	14	DIL	13	IC04

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
HEF4047BP	SOT27	14	DIL	13	IC04
HEF4047BT	SOT108A	14	SO14	13	IC04
HEF4047BU	–	14	PADS	13	IC05
HEF4049BD	SOT74	16	DIL	10	IC04
HEF4049BP	SOT38Z	16	DIL	10	IC04
HEF4049BT	SOT109A	16	SO16	10	IC04
HEF4049BU	–	14	PADS	10	IC05
HEF4050BD	SOT74	16	DIL	10	IC04
HEF4050BP	SOT38Z	16	DIL	10	IC04
HEF4050BT	SOT109A	16	SO16	10	IC04
HEF4050BU	–	14	PADS	10	IC05
HEF4051BD	SOT74	16	DIL	11;13	IC04
HEF4051BP	SOT38Z	16	DIL	11;13	IC04
HEF4051BT	SOT109A	16	SO16	11;13	IC04
HEF4051BU	–	16	PADS	11;13	IC05
HEF4052BD	SOT74	16	DIL	11;13	IC04
HEF4052BP	SOT38Z	16	DIL	11;13	IC04
HEF4052BT	SOT109A	16	SO16	11;13	IC04
HEF4052BU	–	16	PADS	11;13	IC05
HEF4053BD	SOT74	16	DIL	11;13	IC04
HEF4053BP	SOT38Z	16	DIL	11;13	IC04
HEF4053BT	SOT109A	16	SO16	11;13	IC04
HEF4053BU	–	16	PADS	11;13	IC05
HEF4059BD	SOT94	24	DIL	10	IC04
HEF4059BP	SOT101A	24	DIL	10	IC04
HEF4059BT	SOT137A	24	SO24	10	IC04
HEF4059BU	–	24	PADS	10	IC05
HEF4060BD	SOT74	16	DIL	10	IC04
HEF4060BP	SOT38Z	16	DIL	10	IC04
HEF4060BT	SOT109A	16	SO16	10	IC04
HEF4060BU	–	16	PADS	10	IC05
HEF4066BD	SOT73	14	DIL	14	IC04
HEF4066BP	SOT27	14	DIL	14	IC04
HEF4066BT	SOT108A	14	SO14	14	IC04
HEF4066BU	–	14	PADS	14	IC05
HEF4067BD	SOT94	24	DIL	11;13	IC04
HEF4067BP	SOT101A	24	DIL	11;13	IC04
HEF4067BT	SOT137A	24	SO24	11;13	IC04
HEF4067BU	–	24	PADS	11;13	IC05
HEF4068BD	SOT73	14	DIL	12	IC04
HEF4068BP	SOT27	14	DIL	12	IC04
HEF4068BT	SOT108A	14	SO14	12	IC04
HEF4068BU	–	11	PADS	12	IC05
HEF4069UBD	SOT73	14	DIL	13	IC04
HEF4069UBP	SOT27	14	DIL	13	IC04
HEF4069UBT	SOT108A	14	SO14	13	IC04
HEF4069UBU	–	14	PADS	13	IC05
HEF4070BD	SOT73	14	DIL	12	IC04
HEF4070BP	SOT27	14	DIL	12	IC04
HEF4070BT	SOT108A	14	SO14	12	IC04
HEF4070BU	–	14	PADS	12	IC05
HEF4071BD	SOT73	14	DIL	12	IC04
HEF4071BP	SOT27	14	DIL	12	IC04
HEF4071BT	SOT108A	14	SO14	12	IC04
HEF4071BU	–	14	PADS	12	IC05
HEF4072BD	SOT73	14	DIL	12	IC04
HEF4072BP	SOT27	14	DIL	12	IC04

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HEF4072BT	SOT108A	14	SO14	12	IC04
HEF4072BU	–	12	PADS	12	IC05
HEF4073BD	SOT73	14	DIL	11	IC04
HEF4073BP	SOT27	14	DIL	11	IC04
HEF4073BT	SOT108A	14	SO14	11	IC04
HEF4073BU	–	14	PADS	11	IC05
HEF4075BD	SOT73	14	DIL	12	IC04
HEF4075BP	SOT27	14	DIL	12	IC04
HEF4075BT	SOT108A	14	SO14	12	IC04
HEF4075BU	–	14	PADS	12	IC05
HEF4076BD	SOT74	16	DIL	14	IC04
HEF4076BP	SOT38Z	16	DIL	14	IC04
HEF4076BT	SOT109A	16	SO16	14	IC04
HEF4076BU	–	16	PADS	14	IC05
HEF4077BD	SOT73	14	DIL	12	IC04
HEF4077BP	SOT27	14	DIL	12	IC04
HEF4077BT	SOT108A	14	SO14	12	IC04
HEF4077BU	–	14	PADS	12	IC05
HEF4078BD	SOT73	14	DIL	12	IC04
HEF4078BP	SOT27	14	DIL	12	IC04
HEF4078BT	SOT108A	14	SO14	12	IC04
HEF4078BU	–	11	PADS	12	IC05
HEF4081BD	SOT73	14	DIL	11	IC04
HEF4081BP	SOT27	14	DIL	11	IC04
HEF4081BT	SOT108A	14	SO14	11	IC04
HEF4081BU	–	14	PADS	11	IC05
HEF4082BD	SOT73	14	DIL	12	IC04
HEF4082BP	SOT27	14	DIL	12	IC04
HEF4082BT	SOT108A	14	SO14	12	IC04
HEF4082BU	–	12	PADS	12	IC05
HEF4085BD	SOT73	14	DIL	12	IC04
HEF4085BP	SOT27	14	DIL	12	IC04
HEF4085BT	SOT108A	14	SO14	12	IC04
HEF4085BU	–	14	PADS	12	IC05
HEF4086BD	SOT73	14	DIL	12	IC04
HEF4086BP	SOT27	14	DIL	12	IC04
HEF4086BT	SOT108A	14	SO14	12	IC04
HEF4086BU	–	13	PADS	12	IC05
HEF4093BD	SOT73	14	DIL	14	IC04
HEF4093BP	SOT27	14	DIL	14	IC04
HEF4093BT	SOT108A	14	SO14	14	IC04
HEF4093BU	–	14	PADS	14	IC05
HEF4094BD	SOT74	16	DIL	14	IC04
HEF4094BP	SOT38Z	16	DIL	14	IC04
HEF4094BT	SOT109A	16	SO16	14	IC04
HEF4094BU	–	16	PADS	14	IC05
HEF4104BD	SOT74	16	DIL	14	IC04
HEF4104BP	SOT38Z	16	DIL	14	IC04
HEF4104BT	SOT109A	16	SO16	14	IC04
HEF4104BU	–	16	PADS	14	IC05
HEF4502BD	SOT74	16	DIL	10;13	IC04
HEF4502BP	SOT38Z	16	DIL	10;13	IC04
HEF4502BT	SOT109A	16	SO16	10;13	IC04
HEF4502BU	–	16	PADS	10;13	IC05
HEF4505BD	SOT73	14	DIL	13	IC04
HEF4505BP	SOT27	14	DIL	13	IC04
HEF4505BU	–	14	PADS	13	IC05

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HEF4508BD	SOT94	24	DIL	13	IC04
HEF4508BP	SOT101A	24	DIL	13	IC04
HEF4508BT	SOT137A	24	SO24	13	IC04
HEF4508BU	–	24	PADS	13	IC05
HEF4510BD	SOT74	16	DIL	10	IC04
HEF4510BP	SOT38Z	16	DIL	10	IC04
HEF4510BT	SOT109A	16	SO16	10	IC04
HEF4510BU	–	16	PADS	10	IC05
HEF4511BD	SOT74	16	DIL	11;13	IC04
HEF4511BP	SOT38Z	16	DIL	11;13	IC04
HEF4511BT	SOT109A	16	SO16	11;13	IC04
HEF4511BU	–	16	PADS	11;13	IC05
HEF4512BD	SOT74	16	DIL	13	IC04
HEF4512BP	SOT38Z	16	DIL	13	IC04
HEF4512BT	SOT109A	16	SO16	13	IC04
HEF4512BU	–	16	PADS	13	IC05
HEF4514BD	SOT94	24	DIL	11	IC04
HEF4514BP	SOT101A	24	DIL	11	IC04
HEF4514BT	SOT137A	24	SO24	11	IC04
HEF4514BU	–	24	PADS	11	IC05
HEF4515BD	SOT94	24	DIL	11	IC04
HEF4515BP	SOT101A	24	DIL	11	IC04
HEF4515BT	SOT137A	24	SO24	11	IC04
HEF4515BU	–	24	PADS	11	IC05
HEF4516BD	SOT74	16	DIL	10	IC04
HEF4516BP	SOT38Z	16	DIL	10	IC04
HEF4516BT	SOT109A	16	SO16	10	IC04
HEF4516BU	–	16	PADS	10	IC05
HEF4517BD	SOT74	16	DIL	14	IC04
HEF4517BP	SOT38Z	16	DIL	14	IC04
HEF4517BT	SOT162A	16	SO16L	14	IC04
HEF4517BU	–	16	PADS	14	IC05
HEF4518BD	SOT74	16	DIL	10	IC04
HEF4518BP	SOT38Z	16	DIL	10	IC04
HEF4518BT	SOT109A	16	SO16	10	IC04
HEF4518BU	–	16	PADS	10	IC05
HEF4519BD	SOT74	16	DIL	13	IC04
HEF4519BP	SOT38Z	16	DIL	13	IC04
HEF4519BT	SOT109A	16	SO16	13	IC04
HEF4519BU	–	16	PADS	13	IC05
HEF4520BD	SOT74	16	DIL	10	IC04
HEF4520BP	SOT38Z	16	DIL	10	IC04
HEF4520BT	SOT109A	16	SO16	10	IC04
HEF4520BU	–	16	PADS	10	IC05
HEF4521BD	SOT74	16	DIL	10	IC04
HEF4521BP	SOT38Z	16	DIL	10	IC04
HEF4521BT	SOT109A	16	SO16	10	IC04
HEF4521BU	–	16	PADS	10	IC05
HEF4522BD	SOT74	16	DIL	10	IC04
HEF4522BP	SOT38Z	16	DIL	10	IC04
HEF4522BT	SOT109A	16	SO16	10	IC04
HEF4522BU	–	16	PADS	10	IC05
HEF4526BD	SOT74	16	DIL	10	IC04
HEF4526BP	SOT38Z	16	DIL	10	IC04
HEF4526BT	SOT109A	16	SO16	10	IC04
HEF4526BU	–	16	PADS	10	IC05
HEF4527BD	SOT74	16	DIL	14	IC04

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
HEF4527BP	SOT38Z	16	DIL	14	IC04
HEF4527BT	SOT109A	16	SO16	14	IC04
HEF4527BU	–	16	PADS	14	IC05
HEF4528BD	SOT74	16	DIL	13	IC04
HEF4528BP	SOT38Z	16	DIL	13	IC04
HEF4528BT	SOT109A	16	SO16	13	IC04
HEF4528BU	–	16	PADS	13	IC05
HEF4531BD	SOT74	16	DIL	10	IC04
HEF4531BP	SOT38Z	16	DIL	10	IC04
HEF4531BT	SOT109A	16	SO16	10	IC04
HEF4531BU	–	16	PADS	10	IC05
HEF4532BD	SOT74	16	DIL	11	IC04
HEF4532BP	SOT38Z	16	DIL	11	IC04
HEF4532BT	SOT109A	16	SO16	11	IC04
HEF4532BU	–	16	PADS	11	IC05
HEF4534BD	SOT94	24	DIL	10	IC04
HEF4534BP	SOT101A	24	DIL	10	IC04
HEF4534BT	SOT137A	24	SO24	10	IC04
HEF4534BU	–	24	PADS	10	IC05
HEF4538BD	SOT74	16	DIL	13	IC04
HEF4538BP	SOT38Z	16	DIL	13	IC04
HEF4538BT	SOT109A	16	SO16	13	IC04
HEF4538BU	–	16	PADS	13	IC05
HEF4539BD	SOT74	16	DIL	13	IC04
HEF4539BP	SOT38Z	16	DIL	13	IC04
HEF4539BT	SOT109A	16	SO16	13	IC04
HEF4539BU	–	16	PADS	13	IC05
HEF4541BD	SOT73	14	DIL	14	IC04
HEF4541BP	SOT27	14	DIL	14	IC04
HEF4541BT	SOT108A	14	SO14	14	IC04
HEF4541BU	–	12	PADS	14	IC05
HEF4543BD	SOT74	16	DIL	11;13	IC04
HEF4543BP	SOT38Z	16	DIL	11;13	IC04
HEF4543BT	SOT109A	16	SO16	11;13	IC04
HEF4543BU	–	16	PADS	11;13	IC05
HEF4555BD	SOT74	16	DIL	11	IC04
HEF4555BP	SOT38Z	16	DIL	11	IC04
HEF4555BT	SOT109A	16	SO16	11	IC04
HEF4555BU	–	16	PADS	11	IC05
HEF4556BD	SOT74	16	DIL	11	IC04
HEF4556BP	SOT38Z	16	DIL	11	IC04
HEF4556BT	SOT109A	16	SO16	11	IC04
HEF4556BU	–	16	PADS	11	IC05
HEF4557BD	SOT74	16	DIL	14	IC04
HEF4557BP	SOT38Z	16	DIL	14	IC04
HEF4557BT	SOT109A	16	SO16	14	IC04
HEF4557BU	–	16	PADS	14	IC05
HEF4585BD	SOT74	16	DIL	10	IC04
HEF4585BP	SOT38Z	16	DIL	10	IC04
HEF4585BT	SOT109A	16	SO16	10	IC04
HEF4585BU	–	16	PADS	10	IC05
HEF4720BD	SOT74	16	DIL	13	IC04
HEF4720BP	SOT38Z	16	SO16	13	IC04
HEF4720BT	SOT162A	16	SO16L	13	IC04
HEF4720VD	SOT74	16	DIL	13	IC04
HEF4720VP	SOT38Z	16	DIL	13	IC04
HEF4720VT	SOT162A	16	SO16L	13	IC04

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HEF4720VU	–	15	PADS	13	IC05
HEF4724BD	SOT74	16	DIL	13	IC04
HEF4724BP	SOT38Z	16	DIL	13	IC04
HEF4724BT	SOT109A	16	SO16	13	IC04
HEF4724BU	–	16	PADS	13	IC05
HEF4731BD	SOT73	14	DIL	14	IC04
HEF4731BP	SOT27	14	DIL	14	IC04
HEF4731VD	SOT73	14	DIL	14	IC04
HEF4731VP	SOT27	14	DIL	14	IC04
HEF4731VU	–	14	PADS	14	IC05
HEF4737BD	SOT133	18	DIL	10	IC04
HEF4737BP	SOT102	18	DIL	10	IC04
HEF4737VD	SOT133	18	DIL	10	IC04
HEF4737VP	SOT102	18	DIL	10	IC04
HEF4737VU	–	18	PADS	10	IC05
HEF4738VP	SOT129	40	DIL	14	IC04
HEF4750VD	SOT135A	28	DIL	14;97;105	IC04
HEF4750VU	–	28	PADS	14;97;105	IC05
HEF4751VD	SOT135A	28	DIL	10;105	IC04
HEF4751VP	SOT117	28	DIL	10;105	IC04
HEF4751VT	SOT136A	28	SO28	10;105	IC04
HEF4751VU	–	28	PADS	10;105	IC05
HEF4752VD	SOT135A	28	DIL	14	IC04
HEF4752VP	SOT117	28	DIL	14	IC04
HEF4753BD	SOT133	18	DIL	14	IC04
HEF4753BP	SOT102	18	DIL	14	IC04
HEF4753VU	–	18	PADS	14	IC05
HEF4754VD	SOT135A	28	DIL	14	IC04
HEF4754VP	SOT117	28	DIL	14	IC04
HEF4754VT	SOT136A	28	SO28	14	IC04
HEF4754VU	–	28	PADS	14	IC05
HEF4755VD	SOT135A	28	DIL	14	IC04
HEF4755VP	SOT117	28	DIL	14	IC04
HEF4755VT	SOT136A	28	SO28	14	IC04
HEF4755VU	–	28	PADS	14	IC05
ICM7555CD	D	8	SO8	88	IC11
ICM7555CFE	FE	8	CERDIP	88	IC11
ICM7555CN	N	8	PLDIL	88	IC11
ICM7555ID	D	8	SO8	88	IC11
ICM7555IFE	FE	8	CERDIP	88	IC11
ICM7555IN	N	8	PLDIL	88	IC11
ICM7555MFE	FE	8	CERDIP	88	IC11
ICM7555MN	N	8	PLDIL	88	IC11
LF198FE	FE	8	CERDIP	87	IC11
LF198H	HE	8	HEADER	87	IC11
LF298FE	FE	8	CERDIP	87	IC11
LF298H	H	8	HEADER	87	IC11
LF398D	D	14	SO14	87	IC11
LF398FE	FE	8	CERDIP	87	IC11
LF398H	HE	8	HEADER	87	IC11
LF398N	NE	8	PLDIL	87	IC11
LM111FE	FE	8	CERDIP	79	IC11
LM119F	FH	14	CERDIP	79	IC11
LM124F	FH	14	CERDIP	77	IC11
LM124N	NH	14	PLDIL	77	IC11
LM139AF	FH	14	CERDIP	79	IC11
LM139F	FH	14	CERDIP	79	IC11

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LM139N	NH	14	PLDIL	79	–
LM158FE	FE	8	CERDIP	77	IC11
LM158N	N	8	PLDIL	77	IC11
LM1870N	N	20	PLDIL	105	IC11
LM193AFE	FE	8	CERDIP	79	IC11
LM193FE	FE	8	CERDIP	79	IC11
LM193N	NE	8	PLDIL	79	–
LM211D	DE	8	SO8	79	IC11
LM211FE	FE	8	CERDIP	79	IC11
LM211N	NE	8	PLDIL	79	IC11
LM219F	FH	14	CERDIP	79	IC11
LM224D	DH	14	SO14	77	–
LM224F	FH	14	CERDIP	77	IC11
LM224N	NH	14	PLDIL	77	IC11
LM239AN	N	14	PLDIL	79	IC11
LM239F	F	14	CERDIP	79	IC11
LM239N	N	14	PLDIL	79	IC11
LM258FE	FE	8	CERDIP	77	IC11
LM258N	NE	8	PLDIL	77	IC11
LM2901D	DH	14	SO14	79	–
LM2901F	FH	14	CERDIP	79	IC11
LM2901N	NH	14	PLDIL	79	IC11
LM2902D	DH	14	SO14	77	IC11
LM2902N	NH	14	PLDIL	77	IC11
LM2903D	DE	8	SO8	79	–
LM2903FE	FE	8	CERDIP	79	–
LM2903N	NE	8	PLDIL	79	IC11
LM2904D	DE	8	SO	77	IC11
LM2904N	NE	8	PLDIL	77	IC11
LM293AFE	FE	8	CERDIP	79	IC11
LM293AN	NE	8	PLDIL	79	IC11
LM293FE	FE	8	CERDIP	79	IC11
LM293N	NE	8	PLDIL	79	IC11
LM311D	DE	8	SO8	79	IC11
LM311F	FE	8	CERDIP	79	–
LM311FE	FE	8	CERDIP	79	IC11
LM311N	NE	8	PLDIL	79	IC11
LM319D	DH	14	SO14	79	IC11
LM319F	FH	14	CERDIP	79	IC11
LM319N	NH	14	PLDIL	79	IC11
LM324AD	DH	14	SO14	77	IC11
LM324D	DH	14	SO14	77	IC11
LM324F	FH	14	CERDIP	77	IC11
LM324N	NH	14	PLDIL	77	IC11
LM339AF	F	14	CERDIP	79	IC11
LM339AN	NH	14	PLDIL	79	IC11
LM339D	DH	14	SO14	79	IC11
LM339F	FH	14	CERDIP	79	IC11
LM339N	NH	14	PLDIL	79	IC11
LM358D	DE	8	SO8	77	IC11
LM358FE	FE	8	CERDIP	77	IC11
LM358N	NE	8	PLDIL	77	IC11
LM393AFE	FE	8	CERDIP	79	IC11
LM393AN	NE	8	PLDIL	79	IC11
LM393D	DE	8	SO8	79	IC11
LM393FE	FE	8	CERDIP	79	IC11
LM393N	NE	8	PLDIL	79	IC11

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MAB8031AH–2P	SOT129	40	DIL	70;121	–
MAB8031AH–2WP	SOT187AA	44	PLCC	70;121	–
MAB8032AHP	SOT129	40	DIL	70;121	DS
MAB8032AHWP	SOT187AA	44	PLCC	70;121	–
MAB8035HLP	SOT129	40	DIL	70;121	DS
MAB8035HLWP	SOT187AA	44	PLCC	70;121	DS
MAB8039HLP	SOT129	40	DIL	70;121	DS
MAB8039HLWP	SOT187AA	44	PLCC	70;121	DS
MAB8040HLP	SOT129	40	DIL	70;121	DS
MAB8040HLWP	SOT187AA	44	PLCC	70;121	DS
MAB8048HP	SOT129	40	DIL	70;121	DS
MAB8048HWP	SOT187AA	44	PLCC	70;121	DS
MAB8049HP	SOT129	40	DIL	70;121	DS
MAB8049HWP	SOT187AA	40	PLCC	70;121	DS
MAB8050HP	SOT129	40	DIL	70;121	DS
MAB8050HWP	SOT187AA	44	PLCC	70;121	DS
MAB8051AH–2P	SOT129	40	DIL	70;121	–
MAB8051AH–2WP	SOT187AA	44	PLCC	70;121	–
MAB8052AHP	SOT129	40	DIL	70;121	DS
MAB8052AHWP	SOT187AA	44	PLCC	70;121	–
MAB8401B	–	28	PB	70;97;102;115;121	IC12
MAB8401WP	SOT188AA	68	PLCC	70;97;102;115;121	IC12
MAB8411P	SOT117	28	DIL	70;97;102;115;121	IC12
MAB8411T	SOT136A	28	SO28	70;97;102;115;121	IC12
MAB8421P	SOT117	28	DIL	70;97;102;115;121	IC12
MAB8421T	SOT136A	28	SO28	70;97;102;115;121	IC12
MAB8422P	SOT146	20	DIL	70;97;102;116;121	IC12
MAB8441P	SOT117	28	DIL	70;97;102;116;121	IC12
MAB8441T	SOT136A	28	SO28	70;97;102;116;121	IC12
MAB8442P	SOT146	20	DIL	70;97;102;116;121	IC12
MAB8461P	SOT117	28	DIL	70;97;102;116;121	IC12
MAB8461T	SOT136A	28	SO28	70;97;102;116;121	IC12
MAF80A31AH–2P	SOT129	40	DIL	70;121	–
MAF80A31AH–2WP	SOT187AA	44	PLCC	70;121	–
MAF80A32AHP	SOT129	40	DIL	71	DS
MAF80A32AHWP	SOT187AA	44	PLCC	71	–
MAF80A35HLP	SOT129	40	DIL	71;122	DS
MAF80A35HLWP	SOT187AA	44	PLCC	71;122	DS
MAF80A39HLP	SOT129	40	DIL	71;122	DS
MAF80A39HLWP	SOT187AA	44	PLCC	71;122	DS
MAF80A40HLP	SOT129	40	DIL	71;122	DS
MAF80A40HLWP	SOT187AA	44	PLCC	71;122	DS
MAF80A48HP	SOT129	40	DIL	71;122	DS
MAF80A48HWP	SOT187AA	44	PLCC	71;122	DS
MAF80A49HP	SOT129	40	DIL	71;122	DS
MAF80A49HWP	SOT187AA	44	PLCC	71;122	DS
MAF80A50HP	SOT129	40	DIL	71;122	DS
MAF80A50HWP	SOT187AA	44	PLCC	71;122	DS
MAF80A51AH–2P	SOT129	40	DIL	71;122	–
MAF80A51AH–2WP	SOT187AA	44	PLCC	71;122	–
MAF80A52AHP	SOT129	40	DIL	71	DS
MAF80A52AHWP	SOT187AA	44	PLCC	71	–
MAF8031AH–2P	SOT129	40	DIL	71;122	–
MAF8031AH–2WP	SOT187AA	44	PLCC	71;122	–
MAF8032AHP	SOT129	40	DIL	71	DS
MAF8032AHWP	SOT187AA	44	PLCC	71	–
MAF8035HLP	SOT129	40	DIL	71;122	DS

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MAF8035HLWP	SOT187AA	44	PLCC	71;122	DS
MAF8039HLP	SOT129	40	DIL	71;122	DS
MAF8039HLWP	SOT187AA	44	PLCC	71;122	DS
MAF8040HLP	SOT129	40	DIL	71;122	DS
MAF8040HLWP	SOT187AA	44	PLCC	71;122	DS
MAF8048HP	SOT129	40	DIL	71;122	DS
MAF8048HWP	SOT187AA	44	PLCC	71;122	DS
MAF8049HP	SOT129	40	DIL	71;122	DS
MAF8049HWP	SOT187AA	44	PLCC	71;122	DS
MAF8050HP	SOT129	40	DIL	71;122	DS
MAF8050HWP	SOT187AA	44	PLCC	71;122	DS
MAF8051AH-2P	SOT129	40	DIL	71;122	–
MAF8051AH-2WP	SOT187AA	44	PLCC	71;122	–
MAF8052AHP	SOT129	40	DIL	71	DS
MAF8052AHWP	SOT187AA	44	PLCC	71	–
MAF84A11P	SOT117	28	DIL	71;97;102;116;122	IC12
MAF84A21P	SOT117	28	DIL	71;98;102;116;122	IC12
MAF84A22P	SOT146	20	DIL	71;98;102;116;122	IC12
MAF84A41P	SOT117	28	DIL	71;98;102;116;122	IC12
MAF84A42P	SOT146	20	DIL	71;98;102;116;122	IC12
MAF84A61P	SOT117	28	DIL	71;98;102;116;122	IC12
MAF8411P	SOT117	28	DIL	71;98;102;116;122	IC12
MAF8421P	SOT117	28	DIL	72;98;102;116;122	IC12
MAF8422P	SOT146	20	DIL	72;98;102;116;122	IC12
MAF8441P	SOT117	28	DIL	72;98;102;116;123	IC12
MAF8442P	SOT146	20	DIL	72;98;102;116;123	IC12
MAF8461P	SOT117	28	DIL	72;98;102;116;123	IC12
MC1408-7F	F	16	CERDIP	80	IC11
MC1408-7N	NJ	16	PLDIL	80	IC11
MC1408-8D	DJ	16	SO16	80	IC11
MC1408-8F	FJ	16	CERDIP	80	–
MC1408-8N	NJ	16	PLDIL	80	–
MC1458D	DE	8	SO8	77	IC11
MC1458F	FE	8	CERDIP	77	–
MC1458N	NE	8	PLDIL	77	IC11
MC1488D	DH	14	SO14	81;91	IC11 IC19
MC1488F	FH	14	CERDIP	81;91	IC11 IC19
MC1488N	NH	14	PLDIL	81;91	IC11 IC19
MC1489AD	DH	14	SO14	82;91	IC11 IC19
MC1489AF	FH	14	CERDIP	82;91	IC11 IC19
MC1489AN	NH	14	PLDIL	82;91	IC11 IC19
MC1489D	DH	14	SO14	82;91	IC11 IC19
MC1489F	FH	14	CERDIP	82;91	IC11 IC19
MC1489N	NH	14	PLDIL	82;91	IC11 IC19
MC1496F	F	14	CERDIP	93	IC11
MC1496N	NH	14	PLDIL	93	IC11
MC1508-8F	FJ	16	CERDIP	80	IC11
MC1558N	NE	8	PLDIL	77	IC11

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MC1596F	FH	14	CERDIP	93	IC11
MC1596N	NH	14	PLDIL	93	IC11
MC3302D	DH	14	SO14	79	IC11
MC3302F	F	14	CERDIP	79	IC11
MC3302N	NH	14	PLDIL	79	IC11
MC3303F	F	14	CERDIP	77	IC11
MC3303N	NH	14	PLDIL	77	IC11
MC3361D	DJ	16	SO16	93;110;111	IC03 IC11
MC3361N	NJ	16	PLDIL	93;110;111	IC03 IC11
MC3403D	DH	14	SO14	77	IC11
MC3403F	F	14	CERDIP	77	IC11
MC3403N	NH	14	PLDIL	77	IC11
MC3410CF	FJ	16	CERDIP	80	IC11
MC3410F	FJ	16	CERDIP	80	IC11
MC3410N	NJ	16	PLDIL	80	–
MC3503F	FH	14	CERDIP	77	IC11
MC3503N	NH	14	PLDIL	77	–
MC3510	F	16	CERDIP	80;95	IC11
MEB3000	SOT87B	28	CERDIL	83	DS
NE1012D	DE	8	SO8	77	–
NE1012N	NE	8	PLDIL	77	–
NE1037D	DE	8	SO8	77	–
NE1037N	NE	8	PLDIL	77	–
NE4558D	DE	8	SO8	77	IC11
NE4558FE	FE	8	CERDIP	77	IC11
NE4558N	NE	8	PLDIL	77	IC11
NE5018D	DN	24	SO24L	72;74;80	IC11
NE5018F	FM	22	CERDIP	72;74;80	IC11
NE5018N	NM	22	PLDIL	72;74;80	IC11
NE5019F	FM	22	CERDIP	72;74;80	IC11
NE5019N	NM	22	PLDIL	72;74;80	IC11
NE5020F	F	24	CERDIP	72;74;80	IC11
NE5020N	NN	24	PLDIL	72;74;80	IC11
NE5030F	F	24	CERDIP	80	IC11
NE5034F	FK	18	CERDIP	80	IC11
NE5036D	DH	14	SO14	80	IC11
NE5036FE	FE	8	CERDIP	80	IC11
NE5036N	NE	8	PLDIL	80	IC11
NE5037D	DJ	16	SO16	80	IC11
NE5037F	F	16	CERDIP	80	IC11
NE5037N	NJ	16	PLDIL	80	IC11
NE5044D	DJ	16	SO16	84	IC11
NE5044N	NJ	16	PLDIL	84	IC11
NE5045D	DJ	16	SO16	84	IC11
NE5045N	NJ	16	PLDIL	84	IC11
NE5050D	DL	20	SO20L	91	IC11 IC19
NE5050N	N	20	PLDIL	91	IC11 IC19
NE5060F	FH	14	CERDIP	87	IC11
NE5080N	NJ	16	PLDIL	91	IC11 IC19
NE5081N	NL	20	PLDIL	91	IC11 IC19
NE5090D	DJ	16	SO16L	81;83	IC11

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NE5090F	FJ	16	CERDIP	81;83	IC11
NE5090N	NJ	16	PLDIL	81;83	IC11
NE5105AD	D	8	SO8	79	IC11
NE5105AN	N	8	PLDIL	79	IC11
NE5105D	DE	8	SO8	79	IC11
NE5105N	NE	8	PLDIL	79	IC11
NE5118F	F	22	CERDIP	72;74;80	IC11
NE5118N	NM	22	PLDIL	72;74;80	IC11
NE5119F	FM	22	CERDIP	72;74;80	IC11
NE5119N	NM	22	PLDIL	72;74;80	IC11
NE5150F	F	24	CERDIP	80;114	IC11
NE5151F	F	24	CERDIP	80;114	IC11
NE5152F	F	24	CERDIP	80;114	IC11
NE5170A	AQ	28	PLCC	81;91	IC11 IC19
NE5170D	D	24	SO24	81;91	IC11 IC19
NE5170N	N	28	PLDIL	81;91	IC11 IC19
NE5180A	AQ	28	PLCC	82;91	IC11 IC19
NE5180N	N	28	PLDIL	82;91	IC11 IC19
NE5181A	AQ	28	PLCC	82;91	IC11 IC19
NE5181N	N	28	PLDIL	82;91	IC11 IC19
NE5204D	DE	8	SO8	77;91	IC11 IC19
NE5204N	NE	8	PLDIL	77;91	IC11 IC19
NE5205D	DE	8	SO8	77;91	IC11 IC19
NE5205EC	EC	4	T046/7	77;91	IC11 IC19
NE5205FE	FE	8	CERDIP	77;91	IC11 IC19
NE5205N	NE	8	PLDIL	77;91	IC11 IC19
NE521D	DH	14	SO14	79	IC11
NE521F	FH	14	CERDIP	79	IC11
NE521N	NH	14	PLDIL	79	IC11
NE5212D	DE	8	SO8	76;91	IC11 IC19
NE5212FE	FE	8	CERDIP	76;91	IC11 IC19
NE5212N	NE	8	PLDIL	76;91	IC11 IC19
NE522D	DH	14	SO14	79	IC11
NE522F	FH	14	CERDIP	79	IC11
NE522N	NH	14	PLDIL	79	IC11
NE5230D	DE	8	SO8	77;106	IC11 IC03 IC17
NE5230FE	FE	8	CERDIP	77;106	IC11 IC03 IC17

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NE5230N	NE	8	PLDIL	77;106	IC11 IC03 IC17
NE5240D	D	28	SO28	97	IC11
NE5240F	F	28	CERDIP	97	–
NE5240N	N	28	PLDIL	97	IC11
NE527D	DH	14	SO14	79	IC11
NE527F	FH	14	CERDIP	79	IC11
NE527H	HF	10	HEADER	79	IC11
NE527N	NH	14	PLDIL	79	IC11
NE529D	DH	14	SO14	79	IC11
NE529F	FH	14	CERDIP	79	IC11
NE529H	HF	10	HEADER	79	IC11
NE529N	NH	14	PLDIL	79	IC11
NE530FE	FE	8	CERDIP	77	IC11
NE530N	NE	8	PLDIL	77	IC11
NE531FE	FE	8	CERDIL	77	IC11
NE531H	HE	8	HEADER	77	IC11
NE531N	NE	8	PLDIL	77	IC11
NE532D	DE	8	SO8	77	IC11
NE532FE	FE	8	CERDIP	77	IC11
NE532N	NE	8	PLDIL	77	IC11
NE538D	DE	8	SO8	77	–
NE538FE	FE	8	CERDIP	77	IC11
NE538H	HE	8	HEADER	77	IC11
NE538N	NE	8	PLDIL	77	IC11
NE5410F	FJ	16	CERDIP	80	IC11
NE542N	NE	8	PLDIL	76;94;106	IC11
NE544D	DJ	16	SO16L	84	IC11
NE544N	NH	14	PLDIL	84	IC11
NE5512D	DE	8	SO8	77	IC11
NE5512FE	FE	8	CERDIP	77	IC11
NE5512N	NE	8	PLDIL	77	IC11
NE5514D	DJ	16	SO16L	77	IC11
NE5514F	F	14	CERDIP	77	IC11
NE5514N	NH	14	PLDIL	77	IC11
NE5517AN	NJ	16	PLDIL	77	IC11
NE5517D	DJ	16	SO16L	77	IC11
NE5517N	NJ	16	PLDIL	77	IC11
NE5520D	DJ	16	SO16L	85	IC11
NE5520F	F	16	CERDIP	85	IC11
NE5520N	NH	14	PLDIL	85	IC11
NE5521D	DJ	16	SO16	85	IC11
NE5521F	FK	18	CERDIP	85	IC11
NE5521N	NK	18	PLDIL	85	IC11
NE5532AFE	FE	8	CERDIP	77	IC11
NE5532AN	NE	8	PLDIL	77	IC11
NE5532D	D	16	SO16L	77	IC11
NE5532FE	FE	8	CERDIP	77	IC11
NE5532N	NE	8	PLDIL	77	IC11
NE5533AD	D	16	SO16	77	IC11
NE5533AN	NH	14	PLDIL	77	IC11
NE5533D	D	16	SO16	77	IC11
NE5533N	NH	14	PLDIL	77	IC11
NE5534AD	DE	8	SO8	77	IC11
NE5534AFE	FE	8	CERDIP	77	IC11
NE5534AN	NE	8	PLDIL	77	IC11

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NE5534D	DE	8	SO8	77	IC11
NE5534FE	FE	8	CERDIP	77	IC11
NE5534N	NE	8	PLDIL	77	IC11
NE5535F	F	14	CERDIP	77	IC11
NE5535N	NE	8	PLDIL	77	IC11
NE5537D	DH	14	SO14	87	IC11
NE5537FE	FE	8	CERDIP	87	–
NE5537N	NE	8	PLDIL	87	IC11
NE5539D	DH	14	SO14	77;91;113	IC11 IC19
NE5539F	FH	14	CERDIP	77;91;113	IC11 IC19
NE5539N	NH	14	PLDIL	77;91;113	IC11 IC19
NE555D	DE	8	SO8	88	IC11
NE555F	FH	14	CERDIP	88	IC11
NE555FE	FE	8	CERDIP	88	IC11
NE555N	NE	8	PLDIL	88	IC11
NE556–1F	F	14	CERDIP	88	IC11
NE556–1N	NH	14	PLDIL	88	IC11
NE556D	DH	14	SO14	88	IC11
NE556F	FH	14	CERDIP	88	IC11
NE556N	NH	14	PLDIL	88	IC11
NE5560D	DJ	16	SO16	86	IC11
NE5560F	FJ	16	CERDIP	86	IC11
NE5560N	NJ	16	PLDIL	86	IC11
NE5561D	DE	8	SO8	86	IC11
NE5561FE	FE	8	CERDIP	86	IC11
NE5561N	NE	8	PLDIL	86	IC11
NE5562D	DL	20	SO20	86	IC11
NE5562F	FL	20	CERDIP	86	IC11
NE5562N	NL	20	PLDIL	86	IC11
NE5568D	DE	8	SO8	86	IC11
NE5568FE	FE	8	CERDIP	86	IC11
NE5568N	NE	8	PLDIL	86	IC11
NE5570D	DN	24	SO24L	84	IC11
NE5570F	F	24	CERDIP	84	IC11
NE5570N	NN	24	PLDIL	84	IC11
NE558D	DJ	16	SO16L	88	IC11
NE558F	F	16	CERDIP	88	IC11
NE558N	NJ	16	PLDIL	88	IC11
NE5592D	DH	14	SO14	77;113	IC11
NE5592N	NH	14	PLDIL	77;113	IC11
NE564D	DJ	16	SO16	91;93	IC11 IC19
NE564F	FJ	16	CERDIP	91;93	IC11 IC19
NE564I	IJ	16	CERDIL	91;93	–
NE564N	NJ	16	PLDIL	91;93	IC11 IC19
NE565D	DH	14	SO14	93	IC11
NE565F	FH	14	CERDIP	93	IC11
NE565N	NH	14	PLDIL	93	IC11
NE566D	DE	8	SO8	93	IC11
NE566F	FH	14	CERDIP	93	IC11
NE566N	NE	8	PLDIL	93	IC11
NE567D	DE	8	SO8	93;110;111	IC11

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NE567D	DE	8	SO8	93;110;111	IC03
NE567F	FH	14	CERDIP	93;110;111	IC11 IC03
NE567FE	FE	8	CERDIP	93;110;111	IC11
NE567N	NE	8	PLDIL	93;110;111	IC11 IC03
NE568D	D	20	SO20	91;93	IC11 IC19
NE568N	N	20	PLDIL	91;93	IC11 IC19
NE570F	FJ	16	CERDIP	93;110	IC11 IC17
NE570N	NJ	16	PLDIL	93;110	IC11 IC17
NE571D	DJ	16	SO16L	93;110	IC11 IC17
NE571F	FJ	16	CERDIP	93;110	IC11 IC17
NE571N	NJ	16	PLDIL	93;110	IC11 IC17
NE572D	DJ	16	SO16L	93;110	IC11
NE572N	NJ	16	PLDIL	93;110	IC11
NE575D	D	20	SO20	93;110;111	IC11 IC03 IC17
NE575N	N	20	PLDIL	93;110;111	IC11 IC03 IC17
NE587D	DL	20	SO20	72;74;81;83;90	IC11
NE587F	F	18	CERDIP	72;74;81;83;90	IC11
NE587N	NK	18	PLDIL	72;74;81;83;90	IC11
NE589D	DL	20	SO20	72;74;81;83;90	IC11
NE589N	NK	18	PLDIL	72;74;81;83;90	IC11
NE590F	FJ	16	CERDIP	81;83	IC11
NE590N	NJ	16	PLDIL	81;83	IC11
NE5900D	DJ	16	SO16L	106	IC11 IC03
NE5900N	NJ	16	PLDIL	106	IC11 IC03
NE591F	F	18	CERDIP	81	IC11
NE591N	NK	18	PLDIL	81	IC11
NE592D14	DH	14	SO14	77;91;113	IC11 IC19
NE592D8	DE	8	SO8	77;91;113	IC11 IC19
NE592F14	FH	14	CERDIP	77;91;113	IC11 IC19
NE592F8	FE	8	CERDIP	77;91;113	–
NE592H	HF	10	HEADER	77;91;113	IC11 IC19
NE592HD14	DH	14	SO14	77;91;113	IC11 IC19
NE592HD8	DE	8	SO8	77;91;113	IC11 IC19
NE592HN14	NH	14	PLDIL	77;91;113	IC11 IC19
NE592HN8	NE	8	PLDIL	77;91;113	IC11

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
NE592HN8	NE	8	PLDIL	77;91;113	IC19
NE592N14	NH	14	PLDIL	77;91;113	IC11 IC19
NE592N8	NE	8	PLDIL	77;91;113	IC11 IC19
NE594D	DL	20	SO20	81;90	IC11
NE594F	F	18	CERDIP	81;90	IC11
NE594N	NK	18	PLDIL	81;90	IC11
NE602D	DE	8	SO8	91;93;110	IC11 IC17 IC19
NE602FE	FE	8	CERDIP	91;93;110	IC11 IC17 IC19
NE602N	NE	8	PLDIL	91;93;110	IC11 IC17 IC19
NE604D	DJ	16	SO16	91;93;110	IC11 IC17 IC19
NE604F	F	16	CERDIP	91;93;110	IC11 IC17 IC19
NE604N	NJ	16	PLDIL	91;93;110	IC11 IC17 IC19
NE605D	D	20	SO20	93;103;110	IC11 IC17
NE605F	F	20	DIL	93;103;110	IC11 IC17
NE605N	N	20	DIL	93;103;110	IC11 IC17
NE612D	DE	8	SO8	93;110	IC11 IC03 IC17
NE612N	NE	8	PLDIL	93;110	IC11 IC03 IC17
NE614D	DJ	16	SO16	93;110	IC11 IC03 IC17
NE614N	NJ	16	PLDIL	93;110	IC11 IC03 IC17
NE645N	NJ	16	PLDIL	97	IC11
NE646N	NJ	16	PLDIL	97	IC11
NE648N	NJ	16	PLDIL	97	IC11
NE649N	NJ	16	PLDIL	97	IC11
NE650N	NK	18	PLDIL	97	IC11
N2960I	IY	48	CERDIL	67	IC09
N2960N	NY	48	PLDIL	67	IC09
N2964BI	IW	40	CERDIL	67;75	IC09
N2964BN	NW	40	PLDIL	67;75	IC09
N3001I	IW	40	CERDIL	63	IC09
N3001N	NW	40	PLDIL	63	IC09
N3002F	FQ	28	CERDIP	63	IC09
N3002N	NQ	28	PLDIL	63	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N3101AD	D	16	SO16	66	IC10
N3101AN	NJ	16	PLDIL	66	IC10
N74ALS00AD	DH	14	SO14	47	–
N74ALS00AN	NH	14	PLDIL	47	–
N74ALS02D	DH	14	SO14	48	–
N74ALS02N	NH	14	PLDIL	48	–
N74ALS04BD	DH	14	SO14	48	–
N74ALS04BN	NH	14	PLDIL	48	–
N74ALS08D	DH	14	SO14	47	–
N74ALS08N	NH	14	PLDIL	47	–
N74ALS10AD	DH	14	SO14	47	–
N74ALS10AN	NH	14	PLDIL	47	–
N74ALS109AD	DJ	16	SO16	46	–
N74ALS109AN	NJ	16	PLDIL	46	–
N74ALS11AD	DH	14	SO14	47	–
N74ALS11AN	NH	14	PLDIL	47	–
N74ALS112AD	DJ	16	SO16	46	–
N74ALS112AN	NJ	16	PLDIL	46	–
N74ALS138D	DJ	16	SO16	45	–
N74ALS138N	NJ	16	PLDIL	45	–
N74ALS139D	DJ	16	SO16	45	–
N74ALS139N	NJ	16	PLDIL	45	–
N74ALS151D	DJ	16	SO16	45	–
N74ALS151N	NJ	16	PLDIL	49	–
N74ALS153D	DJ	16	SO16	49	–
N74ALS153N	NJ	16	PLDIL	49	–
N74ALS157D	DJ	16	SO16	49;51	–
N74ALS157N	NJ	16	PLDIL	49;51	–
N74ALS158D	DJ	16	SO16	49;51	–
N74ALS158N	NJ	16	PLDIL	49;51	–
N74ALS161BD	DJ	16	SO16	45	–
N74ALS161BN	NJ	16	PLDIL	45	–
N74ALS163BD	DJ	16	SO16	45	–
N74ALS163BN	NJ	16	PLDIL	45	–
N74ALS164D	DH	14	SO14	50	–
N74ALS164N	NH	14	PLDIL	50	–
N74ALS174D	DJ	16	SO16	46	–
N74ALS174N	NJ	16	PLDIL	46	–
N74ALS175D	DJ	16	SO16	46	–
N74ALS175N	NJ	16	PLDIL	46	–
N74ALS191D	DJ	16	SO16	45	–
N74ALS191N	NJ	16	PLDIL	45	–
N74ALS193D	DJ	16	SO16	45	–
N74ALS193N	NJ	16	PLDIL	45	–
N74ALS20AD	DH	14	SO14	47	–
N74ALS20AN	NH	14	PLDIL	47	–
N74ALS240A–1	–	–	–	43	–
N74ALS240AD	DL	20	SO20	43	–
N74ALS240AN	NL	20	PLDIL	43	–
N74ALS241A–1	–	–	–	43	–
N74ALS241AD	DL	20	SO20	43	–
N74ALS241AN	NL	20	PLDIL	43	–
N74ALS244A–1	–	–	–	43	–
N74ALS244AD	DL	20	SO20	43	–
N74ALS244AN	NL	20	PLDIL	43	–
N74ALS245A–1	–	–	–	44	–
N74ALS245AD	DL	20	SO20	44	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74ALS245AN	NL	20	PLDIL	44	–
N74ALS251D	DJ	16	SO16	49	–
N74ALS251N	NJ	16	PLDIL	49	–
N74ALS253D	DJ	16	SO16	49	–
N74ALS253N	NJ	16	PLDIL	49	–
N74ALS257D	DJ	16	SO16	49;51	–
N74ALS257N	NJ	16	PLDIL	49;51	–
N74ALS258D	DJ	16	SO16	49;51	–
N74ALS258N	NJ	16	PLDIL	49;51	–
N74ALS27D	DH	14	SO14	48	–
N74ALS27N	NH	14	PLDIL	48	–
N74ALS273D	DL	20	SO20	46	–
N74ALS273N	NL	20	PLDIL	46	–
N74ALS30AD	DH	14	SO14	48	–
N74ALS30AN	NH	14	PLDIL	48	–
N74ALS32D	DH	14	SO14	48	–
N74ALS32N	NH	14	PLDIL	48	–
N74ALS373D	DL	20	SO20	46	–
N74ALS373N	NL	20	PLDIL	46	–
N74ALS374D	DL	20	SO20	46	–
N74ALS374N	NL	20	PLDIL	46	–
N74ALS38AD	DH	14	SO14	48	–
N74ALS38AN	NH	14	PLDIL	48	–
N74ALS563D	DL	20	SO20	46	–
N74ALS563N	NL	20	PLDIL	46	–
N74ALS564D	DL	20	SO20	46	–
N74ALS564N	NL	20	PLDIL	46	–
N74ALS573D	DL	20	SO20	46	–
N74ALS573N	NL	20	PLDIL	46	–
N74ALS574D	DL	20	SO20	46	–
N74ALS574N	NL	20	PLDIL	46	–
N74ALS620A-1	–	–	–	44;52	–
N74ALS620AD	DL	20	SO20	44;52	–
N74ALS620AN	NL	20	PLDIL	44;52	–
N74ALS623A-1	–	–	–	44;52	–
N74ALS623AD	DL	20	SO20	44;52	–
N74ALS623AN	NL	20	PLDIL	44;52	–
N74ALS74AD	DH	14	SO14	46	–
N74ALS74AN	NH	14	PLDIL	46	–
N74ALS86D	DH	14	SO14	47	–
N74ALS86N	NH	14	PLDIL	47	–
N74F00D	DH	14	SO14	47	IC15
N74F00N	NH	14	PLDIL	47	IC15
N74F02D	DH	14	SO14	48	IC15
N74F02N	NH	14	PLDIL	48	IC15
N74F04D	DH	14	SO14	48	IC15
N74F04N	NH	14	PLDIL	48	IC15
N74F08D	DH	14	SO14	47	IC15
N74F08N	NH	14	PLDIL	47	IC15
N74F10D	DH	14	SO14	47	IC15
N74F10N	NH	14	PLDIL	47	IC15
N74F109D	DJ	16	SO16	46	IC15
N74F109N	NJ	16	PLDIL	46	IC15
N74F11D	DH	14	SO14	47	IC15
N74F11N	NH	14	PLDIL	47	IC15
N74F112D	DJ	16	SO16	46	IC15
N74F112N	NJ	16	PLDIL	46	IC15

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74F113D	DH	14	SO14	46	IC15
N74F113N	NH	14	PLDIL	46	IC15
N74F114D	DH	14	SO14	46	IC15
N74F114N	NH	14	PLDIL	46	IC15
N74F1240D	DL	20	SO20	44	IC15
N74F1240N	NL	20	PLDIL	44	IC15
N74F1241D	DL	20	SO20	44	IC15
N74F1241N	NL	20	PLDIL	44	IC15
N74F1242D	DH	14	SO14	52	IC15
N74F1242N	NH	14	PLDIL	52	IC15
N74F1243D	DH	14	SO14	52	IC15
N74F1243N	NH	14	PLDIL	52	IC15
N74F1244D	DL	20	SO20	44	IC15
N74F1244N	NL	20	PLDIL	44	IC15
N74F1245D	DL	20	SO20	44	IC15
N74F1245N	NL	20	PLDIL	44	IC15
N74F125D	DH	14	SO14	43	IC15
N74F125N	NH	14	PLDIL	43	IC15
N74F126D	DH	14	SO14	43	IC15
N74F126N	NH	14	PLDIL	43	IC15
N74F13D	DH	14	SO14	51	IC15
N74F13N	NH	14	PLDIL	51	IC15
N74F132D	DH	14	SO14	51	IC15
N74F132N	NH	14	PLDIL	51	IC15
N74F133N	NJ	16	PLDIL	48	IC15
N74F138D	DJ	16	SO16	45	IC15
N74F138N	NJ	16	PLDIL	45	IC15
N74F139D	DJ	16	SO16	45	IC15
N74F139N	NJ	16	PLDIL	45	IC15
N74F14D	DH	14	SO14	51	IC15
N74F14N	NH	14	PLDIL	51	IC15
N74F148D	DJ	16	SO16	46	IC15
N74F148N	NJ	16	PLDIL	46	IC15
N74F151AD	DJ	16	SO16	49	IC15
N74F151AN	NJ	16	PLDIL	49	IC15
N74F151D	DJ	16	SO16	49	IC15
N74F151N	NJ	16	PLDIL	49	IC15
N74F153D	DJ	16	SO16	49	IC15
N74F153N	NJ	16	PLDIL	49	IC15
N74F154D	DN	24	SO24	45	IC15
N74F154N	NN	24	PLDIL	45	IC15
N74F157AD	DJ	16	SO16	49;51	IC15
N74F157AN	NJ	16	PLDIL	49;51	IC15
N74F157D	DJ	16	SO16	49;51	IC15
N74F157N	NJ	16	PLDIL	49;51	IC15
N74F158AD	DJ	16	SO16	49;51	IC15
N74F158AN	NJ	16	PLDIL	49;51	IC15
N74F158D	DJ	16	SO16	49;51	IC15
N74F158N	NJ	16	PLDIL	49;51	IC15
N74F160AD	DJ	16	SO16	44	IC15
N74F160AN	NJ	16	PLDIL	44	IC15
N74F161AD	DJ	16	SO16	45	IC15
N74F161AN	NJ	16	PLDIL	45	IC15
N74F162AD	DJ	16	SO16	45	IC15
N74F162AN	NJ	16	PLDIL	45	IC15
N74F163AD	DJ	16	SO16	45	IC15
N74F163AN	NJ	16	PLDIL	45	IC15

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74F163N	NJ	16	PLDIL	45	IC15
N74F164D	DH	14	SO14	50	IC15
N74F164N	NH	14	PLDIL	50	IC15
N74F165N	NJ	16	PLDIL	50	IC15
N74F166D	DJ	16	SO16	50	IC15
N74F166N	NJ	16	PLDIL	50	IC15
N74F168D	DJ	16	SO16	45	IC15
N74F168N	NJ	16	PLDIL	45	IC15
N74F169D	DJ	16	SO16	45	IC15
N74F169N	NJ	16	PLDIL	45	IC15
N74F173D	DJ	16	SO16	46	IC15
N74F173N	NJ	16	PLDIL	46	IC15
N74F174D	DJ	16	SO16	46	IC15
N74F174N	NJ	16	PLDIL	46	IC15
N74F175D	DJ	16	SO16	46	IC15
N74F175N	NJ	16	PLDIL	46	IC15
N74F1761A	A	44	PLCC	51	IC15
N74F1761N	N	48	PLDIL	51	IC15
N74F1762A	A	44	PLCC	51	IC15
N74F1762N	N	40	PLDIL	51	IC15
N74F1763A	A	44	PLCC	51;91	IC15 IC19
N74F1763N	N	48	PLDIL	51;91	IC15 IC19
N74F1764–1A	A	44	PLCC	51;91	IC19
N74F1764–1N	N	48	PLDIL	51;91	IC19
N74F1764A	A	44	PLCC	51;91	IC19
N74F1764N	NY	48	PLDIL	51;91	IC15 IC19
N74F1765–1A	A	44	PLCC	51;91	IC19
N74F1765–1N	N	48	PLDIL	51;91	IC19
N74F1765A	A	44	PLCC	51;91	IC19
N74F1765N	NY	48	PLDIL	51;91	IC15 IC19
N74F181D	DN	24	SO24	43	IC15
N74F181N	NN	24	PLDIL	43	IC15
N74F182D	DJ	16	SO16	43	IC15
N74F182N	NJ	16	PLDIL	43	IC15
N74F189AD	D	16	SO16	49	IC15
N74F189AN	N	16	PLDIL	49	IC15
N74F190D	DJ	16	SO16	45	IC15
N74F190N	NJ	16	PLDIL	45	IC15
N74F191D	DJ	16	SO16	45	IC15
N74F191N	NJ	16	PLDIL	45	IC15
N74F192D	DJ	16	SO16	45	IC15
N74F192N	NJ	16	PLDIL	45	IC15
N74F193D	DJ	16	SO16	45	IC15
N74F193N	NJ	16	PLDIL	45	IC15
N74F194D	DJ	16	SO16	50	IC15
N74F194N	NJ	16	PLDIL	50	IC15
N74F195D	DJ	16	SO16	50	IC15
N74F195N	NJ	16	PLDIL	50	IC15
N74F198N	NN	24	PLDIL	50	IC15
N74F199N	NN	24	PLDIL	50	IC15
N74F20D	DH	14	SO14	47	IC15
N74F20N	NH	14	PLDIL	47	IC15
N74F225N	NL	20	PLDIL	50	IC15

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74F240D	DL	20	SO20	43	IC15
N74F240N	NL	20	PLDIL	43	IC15
N74F241D	DL	20	SO20	43	IC15
N74F241N	NL	20	PLDIL	43	IC15
N74F242D	DH	14	SO14	44;52	IC15
N74F242N	NH	14	PLDIL	44;52	IC15
N74F243D	DH	14	SO14	44;52	IC15
N74F243N	NH	14	PLDIL	44;52	IC15
N74F244D	DL	20	SO20	43	IC15
N74F244N	NL	20	PLDIL	43	IC15
N74F245D	DL	20	SO20	44;52	IC15
N74F245N	NL	20	PLDIL	44;52	IC15
N74F251AD	DJ	16	SO16	49	IC15
N74F251AN	NJ	16	PLDIL	49	IC15
N74F251D	DJ	16	SO16	49	IC15
N74F251N	NJ	16	PLDIL	49	IC15
N74F253D	DJ	16	SO16	49	IC15
N74F253N	NJ	16	PLDIL	49	IC15
N74F256D	DJ	16	SO16	48	IC15
N74F256N	NJ	16	PLDIL	48	IC15
N74F257AD	DJ	16	SO16	49;51	IC15
N74F257AN	NJ	16	PLDIL	49;51	IC15
N74F257D	DJ	16	SO16	49;51	IC15
N74F257N	NJ	16	PLDIL	49;51	IC15
N74F258AD	DJ	16	SO16	49;51	IC15
N74F258AN	NJ	16	PLDIL	49;51	IC15
N74F258D	DJ	16	SO16	49;51	IC15
N74F258N	NJ	16	PLDIL	49;51	IC15
N74F259D	DJ	16	SO16	48	IC15
N74F259N	NJ	16	PLDIL	48	IC15
N74F260D	DH	14	SO14	48	IC15
N74F260N	NH	14	PLDIL	48	IC15
N74F269D	DN	24	SO24	45	IC15
N74F269N	NN	24	PLDIL	45	IC15
N74F27D	DH	14	SO14	48	IC15
N74F27N	NH	14	PLDIL	48	IC15
N74F273D	DL	20	SO20	46	IC15
N74F273N	NL	20	PLDIL	46	IC15
N74F280AD	DH	14	SO14	43	IC15
N74F280AN	NH	14	PLDIL	43	IC15
N74F280BD	DH	14	SO14	43	IC15
N74F280BN	NH	14	PLDIL	43	IC15
N74F283D	DJ	16	SO16	43	IC15
N74F283N	NJ	16	PLDIL	43	IC15
N74F2952N	NN	24	PLDIL	52	IC15
N74F2953N	NN	24	PLDIL	52	IC15
N74F298D	DJ	16	SO16	50	IC15
N74F298N	NJ	16	PLDIL	50	IC15
N74F299D	DL	20	SO20	50	IC15
N74F299N	NL	20	PLDIL	50	IC15
N74F30D	DH	14	SO14	48	IC15
N74F30N	NH	14	PLDIL	48	IC15
N74F30240N	NN	24	PLDIL	46	IC15
N74F30244N	NN	24	PLDIL	46	IC15
N74F30245F	F	24	CERDIP	46;52	IC15
N74F30245N	N	24	PLDIL	46;52	IC15
N74F3037N	NJ	16	PLDIL	46	IC15

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74F3038N	NJ	16	PLDIL	46	IC15
N74F3040N	NJ	16	PLDIL	46	IC15
N74F30640N	NN	24	PLDIL	46;52	IC15
N74F32D	DH	14	SO14	48	IC15
N74F32N	NH	14	PLDIL	48	IC15
N74F322N	NL	20	PLDIL	50	IC15
N74F323N	NL	20	PLDIL	50	IC15
N74F350D	DJ	16	SO16	50	IC15
N74F350N	NJ	16	PLDIL	50	IC15
N74F352D	DJ	16	SO16	49	IC15
N74F352N	NJ	16	PLDIL	49	IC15
N74F353D	DJ	16	SO16	49	IC15
N74F353N	NJ	16	PLDIL	49	IC15
N74F365D	DJ	16	SO16	43	IC15
N74F365N	NJ	16	PLDIL	43	IC15
N74F366D	DJ	16	SO16	43	IC15
N74F366N	NJ	16	PLDIL	43	IC15
N74F367D	DJ	16	SO16	43	IC15
N74F367N	NJ	16	PLDIL	43	IC15
N74F368D	DJ	16	SO16	43	IC15
N74F368N	NJ	16	PLDIL	43	IC15
N74F37D	DH	14	SO14	48	IC15
N74F37N	NH	14	PLDIL	48	IC15
N74F373D	DL	20	SO20	46	IC15
N74F373N	NL	20	PLDIL	46	IC15
N74F374D	DL	20	SO20	46	IC15
N74F374N	NL	20	PLDIL	46	IC15
N74F377D	DL	20	SO20	46	IC15
N74F377N	NL	20	PLDIL	46	IC15
N74F378D	DJ	16	SO16	46	IC15
N74F378N	NJ	16	PLDIL	46	IC15
N74F379D	DJ	16	SO16	46	IC15
N74F379N	NJ	16	PLDIL	46	IC15
N74F38D	DH	14	SO14	48	IC15
N74F38N	NH	14	PLDIL	48	IC15
N74F381D	DL	20	SO20	43	IC15
N74F381N	NL	20	PLDIL	43	IC15
N74F382D	DL	20	SO20	43	IC15
N74F382N	NL	20	PLDIL	43	IC15
N74F384N	NL	20	PLDIL	51	IC15
N74F385D	DL	20	SO20	43	IC15
N74F385N	NL	20	PLDIL	43	IC15
N74F393N	NH	14	PLDIL	45	IC15
N74F395AN	NJ	16	PLDIL	50	IC15
N74F395D	DJ	16	SO16	50	IC15
N74F395N	NJ	16	PLDIL	50	IC15
N74F398D	DL	20	SO20	50	IC15
N74F398N	NL	20	PLDIL	50	IC15
N74F399D	DJ	16	SO16	50	IC15
N74F399N	NJ	16	PLDIL	50	IC15
N74F40D	DH	14	SO14	48	IC15
N74F40N	NH	14	PLDIL	48	IC15
N74F412D	DN	24	SO24	48	IC15
N74F412N	NN	24	PLDIL	48	IC15
N74F432D	DN	24	SO24	48	IC15
N74F432N	NN	24	PLDIL	48	IC15
N74F455D	DN	24	SO24	43	IC15

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74F455N	NN	24	PLDIL	43	IC15
N74F456D	DN	24	SO24	43	IC15
N74F456N	NN	24	PLDIL	43	IC15
N74F51D	DH	14	SO14	47;48	IC15
N74F51N	NH	14	PLDIL	47;48	IC15
N74F521D	DL	20	SO20	44	IC15
N74F521N	NL	20	PLDIL	44	IC15
N74F524D	DL	20	SO20	44	IC15
N74F524N	NL	20	PLDIL	44	IC15
N74F533D	DL	20	SO20	48	IC15
N74F533N	NL	20	PLDIL	48	IC15
N74F534D	DL	20	SO20	46	IC15
N74F534N	NL	20	PLDIL	46	IC15
N74F537D	DL	20	SO20	45	IC15
N74F537N	NL	20	PLDIL	45	IC15
N74F538D	DL	20	SO20	45	IC15
N74F538N	NL	20	PLDIL	45	IC15
N74F539D	DL	20	SO20	45	IC15
N74F539N	NL	20	PLDIL	45	IC15
N74F540D	DL	20	SO20	43	IC15
N74F540N	NL	20	PLDIL	43	IC15
N74F541D	DL	20	SO20	43	IC15
N74F541N	NL	20	PLDIL	43	IC15
N74F543D	DN	24	SO24	48	IC15
N74F543N	NN	24	PLDIL	48	IC15
N74F544D	DN	24	SO24	48	IC15
N74F544N	NN	24	PLDIL	48	IC15
N74F545D	DL	20	SO20	44;52	IC15
N74F545N	NL	20	PLDIL	44;52	IC15
N74F547D	DL	20	SO20	45	IC15
N74F547N	NL	20	PLDIL	45	IC15
N74F548D	DL	20	SO20	45	IC15
N74F548N	NL	20	PLDIL	45	IC15
N74F550N	NQ	28	PLDIL	52	IC15
N74F551N	NQ	28	PLDIL	52	IC15
N74F552N	NQ	28	PLDIL	52	IC15
N74F563N	NL	20	PLDIL	46	IC15
N74F564N	NL	20	PLDIL	46	IC15
N74F568N	NL	20	PLDIL	45	IC15
N74F569N	NL	20	PLDIL	45	IC15
N74F573N	NL	20	PLDIL	46	IC15
N74F574N	NL	20	PLDIL	46	IC15
N74F579D	DL	20	SO20	45	IC15
N74F579N	NL	20	PLDIL	45	IC15
N74F582D	DN	24	SO24	43	IC15
N74F582N	NN	24	PLDIL	43	IC15
N74F583D	DJ	16	SO16	43	IC15
N74F583N	NJ	16	PLDIL	43	IC15
N74F588N	NL	20	PLDIL	52	IC15
N74F595N	NJ	16	PLDIL	50	IC15
N74F597N	NJ	16	PLDIL	50	IC15
N74F598N	NJ	16	PLDIL	50	IC15
N74F604D	DQ	28	SO28	48	IC15
N74F604N	NQ	28	PLDIL	48	IC15
N74F605D	DQ	28	SO28	48	IC15
N74F605N	NQ	28	PLDIL	48	IC15
N74F620D	DL	20	SO20	44;52	IC15

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74F620N	NL	20	PLDIL	44;52	IC15
N74F621D	DL	20	SO20	44;52	IC15
N74F621N	NL	20	PLDIL	44;52	IC15
N74F622D	DL	20	SO20	44;52	IC15
N74F622N	NL	20	PLDIL	44;52	IC15
N74F623D	DL	20	SO20	44;52	IC15
N74F623N	NL	20	PLDIL	44;52	IC15
N74F630N	NQ	28	PLDIL	51	IC15
N74F631N	NQ	28	PLDIL	51	IC15
N74F64D	DH	14	SO14	47;48	IC15
N74F64N	NH	14	PLDIL	47;48	IC15
N74F640D	DL	20	SO20	44;52	IC15
N74F640N	NL	20	PLDIL	44;52	IC15
N74F641D	DL	20	SO20	44;52	IC15
N74F641N	NL	20	PLDIL	44;52	IC15
N74F642D	DL	20	SO20	44;52	IC15
N74F642N	NL	20	PLDIL	44;52	IC15
N74F646D	DN	24	SO24	44;50;52	IC15
N74F646N	NN	24	PLDIL	44;50;52	IC15
N74F647D	DN	24	SO24	44;50;52	IC15
N74F647N	NN	24	PLDIL	44;50;52	IC15
N74F648D	DN	24	SO24	44;50;52	IC15
N74F648N	NN	24	PLDIL	44;50;52	IC15
N74F649D	DN	24	SO24	44;50;52	IC15
N74F649N	NN	24	PLDIL	44;50;52	IC15
N74F651F	FN	24	CERDIP	50;52	IC15
N74F652F	FN	24	CERDIP	50;52	IC15
N74F653F	FN	24	CERDIP	50;52	IC15
N74F654F	FN	24	CERDIP	50;52	IC15
N74F655AD	DN	24	SO24	43	IC15
N74F655AN	NN	24	PLDIL	43	IC15
N74F655D	DN	24	SO24	43	IC15
N74F655N	NN	24	PLDIL	43	IC15
N74F656AD	DN	24	SO24	44	IC15
N74F656AN	NN	24	PLDIL	44	IC15
N74F656D	DN	24	SO24	43	IC15
N74F656N	NN	24	PLDIL	43	IC15
N74F657D	DN	24	SO24	44;52	IC15
N74F657N	NN	24	PLDIL	44;52	IC15
N74F670N	NJ	16	PLDIL	50	IC15
N74F673AN	NN	24	PLDIL	50	IC15
N74F673N	NN	24	PLDIL	50	IC15
N74F674N	NN	24	PLDIL	50	IC15
N74F675N	NN	24	PLDIL	50	IC15
N74F676D	DN	24	SO24	50	IC15
N74F676N	NN	24	PLDIL	50	IC15
N74F711N	NL	20	PLDIL	49	IC15
N74F712N	NN	24	PLDIL	49	IC15
N74F723N	NN	24	PLDIL	49	IC15
N74F725N	NN	24	PLDIL	49	IC15
N74F732N	NL	20	PLDIL	49	IC15
N74F733N	NL	20	PLDIL	49	IC15
N74F74D	DH	14	SO14	46	IC15
N74F74N	NH	14	PLDIL	46	IC15
N74F764–1A	AW	40	PLCC	51;91	IC15 IC19
N74F764–1N	NW	40	PLDIL	51;91	IC15

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74F764–1N	NW	40	PLDIL	51;91	IC19
N74F764A	AW	40	PLCC	51;91	IC15 IC19
N74F764AA	AW	40	PLCC	51;91	IC15 IC19
N74F764AN	N	40	PLDIL	51;91	IC19
N74F764N	NW	40	PLDIL	51;91	IC15 IC19
N74F765–1A	AW	40	PLCC	51;91	IC15 IC19
N74F765–1N	NW	40	PLDIL	51;91	IC15 IC19
N74F765A	AW	40	PLCC	51;91	IC15 IC19
N74F765AA	AW	40	PLCC	51;91	IC15 IC19
N74F765AN	N	40	PLDIL	51;91	IC19
N74F765N	NW	40	PLDIL	51;91	IC15 IC19
N74F779D	DJ	16	SO16	45	IC15
N74F779N	NJ	16	PLDIL	45	IC15
N74F784N	NL	20	PLDIL	51	IC15
N74F786D	D	16	SO16	51	IC19
N74F786N	N	16	PLDIL	51	IC19
N74F804N	NL	20	PLDIL	46	IC15
N74F805N	NL	20	PLDIL	46	IC15
N74F808N	NL	20	PLDIL	46	IC15
N74F821N	NN	24	PLDIL	50	IC15
N74F822N	NN	24	PLDIL	51	IC15
N74F823N	NN	24	PLDIL	51	IC15
N74F824N	NN	24	PLDIL	51	IC15
N74F825N	NN	24	PLDIL	51	IC15
N74F826N	NN	24	PLDIL	51	IC15
N74F827D	DN	24	SO24	44	IC15
N74F827N	NN	24	PLDIL	44	IC15
N74F828D	DN	24	SO24	44	IC15
N74F828N	NN	24	PLDIL	44	IC15
N74F83D	DJ	16	SO16	43	IC15
N74F83N	NJ	16	PLDIL	43	IC15
N74F832N	NL	20	PLDIL	46	IC15
N74F838D	D	20	SO20	51	IC15
N74F838N	N	20	PLDIL	51	IC15
N74F841D	DN	24	SO24	49	IC15
N74F841N	NN	24	PLDIL	49	IC15
N74F842D	DN	24	SO24	49	IC15
N74F842N	NN	24	PLDIL	49	IC15
N74F843N	NN	24	PLDIL	49	IC15
N74F844D	DN	24	SO24	49	IC15
N74F844N	NN	24	PLDIL	49	IC15
N74F845N	NN	24	PLDIL	49	IC15
N74F846D	DN	24	SO24	49	IC15
N74F846N	NN	24	PLDIL	49	IC15
N74F85D	DJ	16	SO16	44	IC15
N74F85N	NJ	16	PLDIL	44	IC15
N74F86D	DH	14	SO14	47;91	IC15
N74F86N	NH	14	PLDIL	47;91	IC15
N74F861D	DN	24	SO24	52	IC15

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74F861N	NN	24	PLDIL	52	IC15
N74F862D	DN	24	SO24	52	IC15
N74F862N	NN	24	PLDIL	52	IC15
N74F863D	DN	24	SO24	52	IC15
N74F863N	NN	24	PLDIL	52	IC15
N74F864D	DN	24	SO24	52	IC15
N74F864N	NN	24	PLDIL	52	IC15
N74F881D	DN	24	SO24	43	IC15
N74F881N	NN	24	PLDIL	43	IC15
N74F882D	DN	24	SO24	43	IC15
N74F882N	NN	24	PLDIL	43	IC15
N74LS00D	DH	14	SO14	47	IC09
N74LS00N	NH	14	PLDIL	47	IC09
N74LS01D	DH	14	SO14	47	IC09
N74LS01N	NH	14	PLDIL	47	IC09
N74LS02D	DH	14	SO14	48	IC09
N74LS02N	NH	14	PLDIL	48	IC09
N74LS04D	DH	14	SO14	48	IC09
N74LS04N	NH	14	PLDIL	48	IC09
N74LS05D	DH	14	SO14	48	IC09
N74LS05N	NH	14	PLDIL	48	IC09
N74LS08D	DH	14	SO14	47	IC09
N74LS08N	NH	14	PLDIL	47	IC09
N74LS09D	DH	14	SO14	47	IC09
N74LS09N	NH	14	PLDIL	47	IC09
N74LS10D	DH	14	SO14	47	IC09
N74LS10N	NH	14	PLDIL	47	IC09
N74LS107D	DH	14	SO14	46	IC09
N74LS107N	NH	14	PLDIL	46	IC09
N74LS109AD	DJ	16	SO16	46	IC09
N74LS109AN	NJ	16	PLDIL	46	IC09
N74LS11D	DH	14	SO14	47	IC09
N74LS11N	NH	14	PLDIL	47	IC09
N74LS112D	DJ	16	SO16	46	IC09
N74LS112N	NJ	16	PLDIL	46	IC09
N74LS113N	NH	14	PLDIL	46	IC09
N74LS125AD	DH	14	SO14	43	IC09
N74LS125AN	NH	14	PLDIL	43	IC09
N74LS126AD	DH	14	SO14	43	IC09
N74LS126AN	NH	14	PLDIL	43	IC09
N74LS13D	DH	14	SO14	51	IC09
N74LS13N	NH	14	PLDIL	51	IC09
N74LS132D	DH	14	SO14	51	IC09
N74LS132N	NH	14	PLDIL	51	IC09
N74LS136D	DH	14	SO14	47	IC09
N74LS136N	NH	14	PLDIL	47	IC09
N74LS138D	DJ	16	SO16	45	IC09
N74LS138N	NJ	16	PLDIL	45	IC09
N74LS139D	DJ	16	SO16	45	IC09
N74LS139N	NJ	16	PLDIL	45	IC09
N74LS14D	DH	14	SO14	51	IC09
N74LS14N	NH	14	PLDIL	51	IC09
N74LS151D	DJ	16	SO16	49	IC09
N74LS151N	NJ	16	PLDIL	49	IC09
N74LS153D	DJ	16	SO16	49	IC09
N74LS153N	NJ	16	PLDIL	49	IC09
N74LS154D	DN	24	SO24	45	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74LS154N	NN	24	PLDIL	45	IC09
N74LS155D	DJ	16	SO16	45	IC09
N74LS155N	NJ	16	PLDIL	45	IC09
N74LS156D	DJ	16	SO16	45	IC09
N74LS156N	NJ	16	PLDIL	45	IC09
N74LS157D	DJ	16	SO16	49;51	IC09
N74LS157N	NJ	16	PLDIL	49;51	IC09
N74LS158D	DJ	16	SO16	49;51	IC09
N74LS158N	NJ	16	PLDIL	49;51	IC09
N74LS160AN	NJ	16	PLDIL	44	IC09
N74LS161AD	DJ	16	SO16	45	IC09
N74LS161AN	NJ	16	PLDIL	45	IC09
N74LS162AN	NJ	16	PLDIL	45	IC09
N74LS163AD	DJ	16	SO16	45	IC09
N74LS163AN	NJ	16	PLDIL	45	IC09
N74LS164D	DH	14	SO14	50	IC09
N74LS164N	NH	14	PLDIL	50	IC09
N74LS168AN	NJ	16	PLDIL	45	IC09
N74LS169AD	DJ	16	SO16	45	IC09
N74LS169AN	NJ	16	PLDIL	45	IC09
N74LS170N	NJ	16	PLDIL	50	IC09
N74LS173D	DJ	16	SO16	46	IC09
N74LS173N	NJ	16	PLDIL	46	IC09
N74LS174D	DJ	16	SO16	46	IC09
N74LS174N	NJ	16	PLDIL	46	IC09
N74LS175D	DJ	16	SO16	46	IC09
N74LS175N	NJ	16	PLDIL	46	IC09
N74LS1801F	FN	24	CERDIP	51	IC09
N74LS1802F	–	–	–	51	IC09
N74LS181N	NN	24	PLDIL	43	IC09
N74LS191D	DJ	16	SO16	45	IC09
N74LS191N	NJ	16	PLDIL	45	IC09
N74LS192N	NJ	16	PLDIL	45	IC09
N74LS193D	DJ	16	SO16	45	IC09
N74LS193N	NJ	16	PLDIL	45	IC09
N74LS194AD	DJ	16	SO16	50	IC09
N74LS194AN	NJ	16	PLDIL	50	IC09
N74LS195AD	DJ	16	SO16	50	IC09
N74LS195AN	NJ	16	PLDIL	50	IC09
N74LS197D	DH	14	SO14	45	IC09
N74LS197N	NH	14	PLDIL	45	IC09
N74LS20D	DH	14	SO14	47	IC09
N74LS20N	NH	14	PLDIL	47	IC09
N74LS21D	DH	14	SO14	47	IC09
N74LS21N	NH	14	PLDIL	47	IC09
N74LS240D	DL	20	SO20	43	IC09
N74LS240N	NL	20	PLDIL	43	IC09
N74LS241D	DL	20	SO20	43	IC09
N74LS241N	NL	20	PLDIL	43	IC09
N74LS242N	NH	14	PLDIL	44;52	IC09
N74LS243N	NH	14	PLDIL	44;52	IC09
N74LS244D	DL	20	SO20	43	IC09
N74LS244N	NL	20	PLDIL	43	IC09
N74LS245D	DL	20	SO20	44;52	IC09
N74LS245N	NL	20	PLDIL	44;52	IC09
N74LS251AD	DJ	16	SO16	49	IC09
N74LS251AN	NJ	16	PLDIL	49	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74LS251D	DJ	16	SO16	49	IC09
N74LS251N	NJ	16	PLDIL	49	IC09
N74LS253D	DJ	16	SO16	49	IC09
N74LS253N	NJ	16	PLDIL	49	IC09
N74LS256D	DJ	16	SO16	48	IC09
N74LS256N	NJ	16	PLDIL	48	IC09
N74LS257AD	DJ	16	SO16	49;51	IC09
N74LS257AN	NJ	16	PLDIL	49;51	IC09
N74LS258AD	DJ	16	SO16	49;51	IC09
N74LS258AN	NJ	16	PLDIL	49;51	IC09
N74LS259D	DJ	16	SO16	48	IC09
N74LS259N	NJ	16	PLDIL	48	IC09
N74LS26D	DH	14	SO14	48	IC09
N74LS26N	NH	14	PLDIL	48	IC09
N74LS260D	DH	14	SO14	48	IC09
N74LS260N	NH	14	PLDIL	48	IC09
N74LS266D	DH	14	SO14	47	IC09
N74LS266N	NH	14	PLDIL	47	IC09
N74LS27D	DH	14	SO14	48	IC09
N74LS27N	NH	14	PLDIL	48	IC09
N74LS273D	DL	20	SO20	46	IC09
N74LS273N	NL	20	PLDIL	46	IC09
N74LS283D	DJ	16	SO16	43	IC09
N74LS283N	NJ	16	PLDIL	43	IC09
N74LS290D	DH	14	SO14	45	IC09
N74LS290N	NH	14	PLDIL	45	IC09
N74LS293D	DH	14	SO14	45	IC09
N74LS293N	NH	14	PLDIL	45	IC09
N74LS295BN	NH	14	PLDIL	50	IC09
N74LS298N	NJ	16	PLDIL	50	IC09
N74LS30D	DH	14	SO14	48	IC09
N74LS30N	NH	14	PLDIL	48	IC09
N74LS301D	–	–	–	49	IC09
N74LS301N	NJ	16	PLDIL	49	IC09
N74LS32D	DH	14	SO14	48	IC09
N74LS32N	NH	14	PLDIL	48	IC09
N74LS33N	NH	14	PLDIL	48	IC09
N74LS352N	NJ	16	PLDIL	49	IC09
N74LS353D	DJ	16	SO16	49	IC09
N74LS353N	NJ	16	PLDIL	49	IC09
N74LS363N	NL	20	PLDIL	48	IC09
N74LS364N	NL	20	PLDIL	46	IC09
N74LS365AD	DJ	16	SO16	43	IC09
N74LS365AN	NJ	16	PLDIL	43	IC09
N74LS366AN	NJ	16	PLDIL	43	IC09
N74LS367AD	DJ	16	SO16	43	IC09
N74LS367AN	NJ	16	PLDIL	43	IC09
N74LS368AD	DJ	16	SO16	43	IC09
N74LS368AN	NJ	16	PLDIL	43	IC09
N74LS37N	NH	14	PLDIL	48	IC09
N74LS373D	DL	20	SO20	46	IC09
N74LS373N	NL	20	PLDIL	46	IC09
N74LS374D	DL	20	SO20	46	IC09
N74LS374N	NL	20	PLDIL	46	IC09
N74LS375D	DJ	16	SO16	48	IC09
N74LS375N	NJ	16	PLDIL	48	IC09
N74LS377D	DL	20	SO20	46	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74LS377N	NL	20	PLDIL	46	IC09
N74LS378N	NJ	16	PLDIL	46	IC09
N74LS38D	DH	14	SO14	48	IC09
N74LS38N	NH	14	PLDIL	48	IC09
N74LS390D	DJ	16	SO16	45	IC09
N74LS390N	NJ	16	PLDIL	45	IC09
N74LS393D	DH	14	SO14	45	IC09
N74LS393N	NH	14	PLDIL	45	IC09
N74LS395AN	NJ	16	PLDIL	50	IC09
N74LS40N	NH	14	PLDIL	48	IC09
N74LS42D	DJ	16	SO16	45	IC09
N74LS42N	NJ	16	PLDIL	45	IC09
N74LS429N	N	28	PLDIL	51;91	IC19
N74LS445N	NJ	16	PLDIL	45	IC09
N74LS490N	NJ	16	PLDIL	45	IC09
N74LS51D	DH	14	SO14	47;48	IC09
N74LS51N	NH	14	PLDIL	47;48	IC09
N74LS54D	DH	14	SO14	47;48	IC09
N74LS54N	NH	14	PLDIL	47;48	IC09
N74LS540D	DL	20	SO20	43	IC09
N74LS540N	NL	20	PLDIL	43	IC09
N74LS541D	DL	20	SO20	43	IC09
N74LS541N	NL	20	PLDIL	43	IC09
N74LS568AN	NL	20	PLDIL	45	IC09
N74LS569AN	NL	20	PLDIL	45	IC09
N74LS620N	NL	20	PLDIL	44;52	IC09
N74LS621N	NL	20	PLDIL	44;52	IC09
N74LS622N	NL	20	PLDIL	44;52	IC09
N74LS623N	NL	20	PLDIL	44;52	IC09
N74LS640–1N	NL	20	PLDIL	44;52	IC09
N74LS640D	DL	20	SO20	44;52	IC09
N74LS640N	NL	20	PLDIL	44;52	IC09
N74LS641–1N	NL	20	PLDIL	44;52	IC09
N74LS641N	NL	20	PLDIL	44;52	IC09
N74LS642–1N	NL	20	PLDIL	44;52	IC09
N74LS642N	NL	20	PLDIL	44;52	IC09
N74LS645–1D	DL	20	SO20	44;52	IC09
N74LS645–1N	NL	20	PLDIL	44;52	IC09
N74LS645D	DL	20	SO20	44;52	IC09
N74LS645N	NL	20	PLDIL	44;52	IC09
N74LS670D	DJ	16	SO20	50	IC09
N74LS670N	NJ	16	PLDIL	50	IC09
N74LS73D	DH	14	SO14	46	IC09
N74LS73N	NH	14	PLDIL	46	IC09
N74LS74AD	DH	14	SO14	46	IC09
N74LS74AN	NH	14	PLDIL	46	IC09
N74LS75D	DJ	16	SO16	48	IC09
N74LS75N	NJ	16	PLDIL	48	IC09
N74LS76N	NJ	16	PLDIL	46	IC09
N74LS764N	NW	40	PLDIL	51	IC09
N74LS765N	NW	40	PLDIL	51	IC09
N74LS83AD	DJ	16	SO16	43	IC09
N74LS83AN	NJ	16	PLDIL	43	IC09
N74LS85D	DJ	16	SO16	44	IC09
N74LS85N	NJ	16	PLDIL	44	IC09
N74LS86D	DH	14	SO14	47	IC09
N74LS86N	NH	14	PLDIL	47	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74LS90N	NH	14	PLDIL	44	IC09
N74LS92D	DH	14	SO14	44	IC09
N74LS92N	NH	14	PLDIL	44	IC09
N74LS93D	DH	14	SO14	44	IC09
N74LS93N	NH	14	PLDIL	44	IC09
N74LS95BN	NH	14	PLDIL	50	IC09
N74LS96N	NJ	16	PLDIL	50	IC09
N74S00D	DH	14	SO14	47	IC09
N74S00N	NH	14	PLDIL	47	IC09
N74S02D	DH	14	SO14	48	IC09
N74S02N	NH	14	PLDIL	48	IC09
N74S03D	DH	14	SO14	47	IC09
N74S03N	NH	14	PLDIL	47	IC09
N74S04D	DH	14	SO14	48	IC09
N74S04N	NH	14	PLDIL	48	IC09
N74S05D	DH	14	SO14	48	IC09
N74S05N	NH	14	PLDIL	48	IC09
N74S08D	DH	14	SO14	47	IC09
N74S08N	NH	14	PLDIL	47	IC09
N74S10D	DH	14	SO14	47	IC09
N74S10N	NH	14	PLDIL	47	IC09
N74S11D	DH	14	SO14	47	IC09
N74S11N	NH	14	PLDIL	47	IC09
N74S112D	DJ	16	SO16	46	IC09
N74S112N	NJ	16	PLDIL	46	IC09
N74S113D	DH	14	SO14	46	IC09
N74S113N	NJ	16	PLDIL	46	IC09
N74S133D	DJ	16	SO16	48	IC09
N74S133N	NJ	16	PLDIL	48	IC09
N74S134D	DJ	16	SO16	48	IC09
N74S134N	NJ	16	PLDIL	48	IC09
N74S135N	NJ	16	PLDIL	47	IC09
N74S138D	DJ	16	SO16	45	IC09
N74S138N	NJ	16	PLDIL	45	IC09
N74S139D	DJ	16	SO16	45	IC09
N74S139N	NJ	16	PLDIL	45	IC09
N74S140N	NH	14	PLDIL	48	IC09
N74S151D	DJ	16	SO16	49	IC09
N74S151N	NJ	16	PLDIL	49	IC09
N74S153D	DJ	16	SO16	49	IC09
N74S153N	NJ	16	PLDIL	49	IC09
N74S157D	DJ	16	SO16	49;51	IC09
N74S157N	NJ	16	PLDIL	49;51	IC09
N74S158D	DJ	16	SO16	49;51	IC09
N74S158N	NJ	16	PLDIL	49;51	IC09
N74S168AD	DJ	16	SO16	45	IC09
N74S168N	NJ	16	PLDIL	45	IC09
N74S169AD	DJ	16	SO16	45	IC09
N74S169AN	NJ	16	PLDIL	45	IC09
N74S172N	NN	24	PLDIL	50	IC09
N74S174D	DJ	16	SO16	46	IC09
N74S174N	NJ	16	PLDIL	46	IC09
N74S175D	DJ	16	SO16	46	IC09
N74S175N	NJ	16	PLDIL	46	IC09
N74S181N	NN	24	PLDIL	43	IC09
N74S182D	DJ	16	SO16	43	IC09
N74S182N	NJ	16	PLDIL	43	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N74S189D	DJ	16	SO16	49	IC09
N74S189F	FJ	16	CERDIP	49	IC09
N74S189N	NJ	16	PLDIL	49	IC09
N74S194D	DJ	16	SO16	50	IC09
N74S194N	NJ	16	PLDIL	50	IC09
N74S195N	NJ	16	PLDIL	50	IC09
N74S20D	DH	14	SO14	47	IC09
N74S20N	NH	14	PLDIL	47	IC09
N74S225N	NL	20	PLDIL	50	IC09
N74S240D	DL	20	SO20	43	IC09
N74S240N	NL	20	PLDIL	43	IC09
N74S241N	NL	20	PLDIL	43	IC09
N74S242N	NH	14	PLDIL	44;52	IC09
N74S243N	NH	14	PLDIL	44;52	IC09
N74S244N	NL	20	PLDIL	43	IC09
N74S251N	NJ	16	PLDIL	49	IC09
N74S253D	DJ	16	SO16	49	IC09
N74S253N	NJ	16	PLDIL	49	IC09
N74S257D	DJ	16	SO16	49;51	IC09
N74S257N	NJ	16	PLDIL	49;51	IC09
N74S258N	NJ	16	PLDIL	49;51	IC09
N74S260D	DH	14	SO14	48	IC09
N74S260N	NH	14	PLDIL	48	IC09
N74S273D	DL	20	SO20	46	IC09
N74S273N	NL	20	PLDIL	46	IC09
N74S280N	NH	14	PLDIL	43	IC09
N74S301D	–	–	–	49	–
N74S301N	NJ	16	PLDIL	49	IC09
N74S32D	DH	14	SO14	48	IC09
N74S32N	NH	14	PLDIL	48	IC09
N74S350N	NJ	16	PLDIL	50	IC09
N74S37D	DH	14	SO14	48	IC09
N74S37N	NH	14	PLDIL	48	IC09
N74S373D	DL	20	SO20	46	IC09
N74S373N	NL	20	PLDIL	46	IC09
N74S374D	DL	20	SO20	46	IC09
N74S374N	NL	20	PLDIL	46	IC09
N74S38D	DH	14	SO14	48	IC09
N74S38N	NH	14	PLDIL	48	IC09
N74S40N	NH	14	PLDIL	48	IC09
N74S51D	DH	14	SO14	47;48	IC09
N74S51N	NH	14	PLDIL	47;48	IC09
N74S534N	NL	20	PLDIL	46	IC09
N74S64D	NH	14	PLDIL	47;48	IC09
N74S64N	NH	14	PLDIL	47;48	IC09
N74S74D	DH	14	SO14	46	IC09
N74S74N	NH	14	PLDIL	46	IC09
N74S85D	DJ	16	SO16	44	IC09
N74S85N	NJ	16	PLDIL	44	IC09
N74S86D	DH	14	SO14	47	IC09
N74S86N	NH	14	PLDIL	47	IC09
N7400N	NH	14	PLDIL	47	IC09
N7402N	NH	14	PLDIL	48	IC09
N7403N	NH	14	PLDIL	47	IC09
N7404N	NH	14	PLDIL	48	IC09
N7405N	NH	14	PLDIL	48	IC09
N7406D	DH	14	SO14	43	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N7406N	NH	14	PLDIL	43	IC09
N7407D	DH	14	SO14	43	IC09
N7407N	NH	14	PLDIL	43	IC09
N7408N	NH	14	PLDIL	47	IC09
N7410N	NH	14	PLDIL	47	IC09
N74107N	NH	14	PLDIL	46	IC09
N74109N	NJ	16	PLDIL	46	IC09
N7411N	NH	14	PLDIL	47	IC09
N74116N	NN	24	PLDIL	48	IC09
N74121D	DH	14	SO14	49	IC09
N74121N	NH	14	PLDIL	49	IC09
N74123D	DJ	16	SO14	49	IC09
N74123N	NJ	16	PLDIL	49	IC09
N74125N	NH	14	PLDIL	43	IC09
N74126N	NH	14	PLDIL	43	IC09
N74128N	NH	14	PLDIL	48	IC09
N7413N	NH	14	PLDIL	51	IC09
N74132N	NH	14	PLDIL	51	IC09
N7414D	DH	14	SO14	51	IC09
N7414N	NH	14	PLDIL	51	IC09
N74145D	DJ	16	SO16	45	IC09
N74145N	NJ	16	PLDIL	45	IC09
N74147N	NJ	16	PLDIL	46	IC09
N74148D	DJ	16	SO16	46	IC09
N74148N	NJ	16	PLDIL	46	IC09
N74150N	NN	24	PLDIL	49	IC09
N74151N	NJ	16	PLDIL	49	IC09
N74153N	NJ	16	PLDIL	49	IC09
N74154N	NN	24	PLDIL	45	IC09
N74155N	NJ	16	PLDIL	45	IC09
N74156N	NJ	16	PLDIL	45	IC09
N74157N	NJ	16	PLDIL	49;51	IC09
N74158N	NJ	16	PLDIL	49;51	IC09
N7416N	NH	14	PLDIL	43	IC09
N74160N	NJ	16	PLDIL	44	IC09
N74161N	NJ	16	PLDIL	45	IC09
N74163N	NJ	16	PLDIL	45	IC09
N74164N	NH	14	PLDIL	50	IC09
N74165N	NJ	16	PLDIL	50	IC09
N74166D	DJ	16	SO16	50	IC09
N74166N	NJ	16	PLDIL	50	IC09
N7417D	DH	14	SO16	43	IC09
N7417N	NH	14	PLDIL	43	IC09
N74170N	NJ	16	PLDIL	50	IC09
N74173N	NJ	16	PLDIL	46	IC09
N74174N	NJ	16	PLDIL	46	IC09
N74175N	NJ	16	PLDIL	46	IC09
N74180N	NH	14	PLDIL	43	IC09
N74181N	NN	24	PLDIL	43	IC09
N74190N	NJ	16	PLDIL	45	IC09
N74191N	NJ	16	PLDIL	45	IC09
N74192N	NJ	16	PLDIL	45	IC09
N74193N	NJ	16	PLDIL	45	IC09
N74194N	NJ	16	PLDIL	50	IC09
N74195N	NJ	16	PLDIL	50	IC09
N74199N	NN	24	PLDIL	50	IC09
N7420N	NH	14	PLDIL	47	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N7421N	NH	14	PLDIL	47	IC09
N74221D	DJ	16	SO16	49	IC09
N74221N	NJ	16	PLDIL	49	IC09
N7425N	NH	14	PLDIL	48	IC09
N7426N	NH	14	PLDIL	48	IC09
N7427N	NH	14	PLDIL	48	IC09
N74279D	DJ	16	SO16	48	IC09
N74279N	NJ	16	PLDIL	48	IC09
N7428N	NH	14	PLDIL	48	IC09
N74298N	NJ	16	PLDIL	50	IC09
N7430N	NH	14	PLDIL	48	IC09
N7432N	NH	14	PLDIL	48	IC09
N7433N	NH	14	PLDIL	48	IC09
N74365AN	NJ	16	PLDIL	43	IC09
N74366AN	NJ	16	PLDIL	43	IC09
N74367AN	NJ	16	PLDIL	43	IC09
N74368AN	NJ	16	PLDIL	43	IC09
N7437N	NH	14	PLDIL	48	IC09
N7438D	DH	14	SO14	48	IC09
N7438N	NH	14	PLDIL	48	IC09
N7439N	NH	14	PLDIL	48	IC09
N7440N	NH	14	PLDIL	48	IC09
N7442N	NJ	16	PLDIL	45	IC09
N7445N	NJ	16	PLDIL	45	IC09
N7450N	NH	14	PLDIL	47;48	–
N7451N	NH	14	PLDIL	47;48	IC09
N7473N	NH	14	PLDIL	46	IC09
N7474N	NH	14	PLDIL	46	IC09
N7475N	NJ	16	PLDIL	48	IC09
N7476N	NJ	16	PLDIL	46	IC09
N7483N	NJ	16	PLDIL	43	IC09
N7485N	NJ	16	PLDIL	44	IC09
N7486N	NH	14	PLDIL	47	IC09
N7490N	NH	14	PLDIL	44	IC09
N7491AN	N	14	PLDIL	50	IC09
N7492N	NH	14	PLDIL	44	IC09
N7493N	NH	14	PLDIL	44	IC09
N7494N	NJ	16	PLDIL	50	IC09
N7495N	NH	14	PLDIL	50	IC09
N7496N	NJ	16	PLDIL	50	IC09
N8TS805N	NL	20	PLDIL	62	IC09
N8TS807N	NL	20	PLDIL	62	IC09
N8TS808N	NL	20	PLDIL	62	IC09
N8T09N	NH	14	PLDIL	62	IC09
N8T10N	NJ	16	PLDIL	62	IC09
N8T125N	NL	20	PLDIL	63	IC09
N8T126N	NJ	16	PLDIL	62	IC09
N8T128N	NJ	16	PLDIL	62	IC09
N8T129N	NJ	16	PLDIL	62	IC09
N8T13N	NJ	16	PLDIL	62	IC09
N8T15N	NH	14	PLDIL	62	IC09
N8T16N	NH	14	PLDIL	62	IC09
N8T20N	NJ	16	PLDIL	63	IC09
N8T23N	NJ	16	PLDIL	62	IC09
N8T24N	NJ	16	PLDIL	63	IC09
N8T245N	NL	20	PLDIL	63	–
N8T26AN	NJ	16	PLDIL	62;63	IC09

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N8T28N	NJ	16	PLDIL	62;63	IC09
N8T31N	NN	24	PLDIL	63;67	IC14
N8T32–001N	NN	24	PLDIL	63;67	IC14
N8T32–004N	NN	24	PLDIL	63;67	IC14
N8T32N	NN	24	PLDIL	63;67	IC14
N8T34N	NJ	16	PLDIL	62;63	–
N8T3404N	NJ	16	PLDIL	62	IC09
N8T36N	NN	24	PLDIL	63;67	IC14
N8T37N	NJ	16	PLDIL	62	IC09
N8T38N	NJ	16	PLDIL	62;63	IC09
N8T380N	NH	14	PLDIL	62	IC09
N8T95N	NJ	16	PLDIL	62	IC09
N8T96N	NJ	16	PLDIL	62	IC09
N8T97D	DJ	16	SO16	62	IC09
N8T97N	NJ	16	PLDIL	62	IC09
N8T98N	NJ	16	PLDIL	62	IC09
N8X01AN	NH	14	PLDIL	67;91	IC14 IC19
N8X02AN	NW	40	PLDIL	67	IC14
N8X305A	AB	68	PLCC	67	IC14
N8X305N	NZ	50	PLDIL	67	IC14
N8X310N	NW	40	PLDIL	67	IC14
N8X320N	NW	40	PLDIL	67	IC14
N8X350F	FM	22	CERDIP	66;67	IC14
N8X350N	NM	22	PLDIL	66;67	IC14
N8X371N	NN	24	PLDIL	67	IC14
N8X372–000N	NN	24	PLDIL	67	IC14
N8X372–001N	NN	24	PLDIL	67	IC14
N8X372–002N	NN	24	PLDIL	67	IC14
N8X372–003N	NN	24	PLDIL	67	IC14
N8X372–004N	NN	24	PLDIL	67	IC14
N8X372–005N	NN	24	PLDIL	67	IC14
N8X372–006N	NN	24	PLDIL	67	IC14
N8X372–007N	NN	24	PLDIL	67	IC14
N8X372–008N	NN	24	PLDIL	67	IC14
N8X372N	NN	24	PLDIL	67	IC14
N8X376–000N	NN	24	PLDIL	67	IC14
N8X376–001N	NN	24	PLDIL	67	IC14
N8X376–002N	NN	24	PLDIL	67	IC14
N8X376–003N	NN	24	PLDIL	67	IC14
N8X376–004N	NN	24	PLDIL	67	IC14
N8X376–005N	NN	24	PLDIL	67	IC14
N8X376–006N	NN	24	PLDIL	67	IC14
N8X376–007N	NN	24	PLDIL	67	IC14
N8X376–008N	NN	24	PLDIL	67	IC14
N8X376–009N	NN	24	PLDIL	67	IC14
N8X376–010N	NN	24	PLDIL	67	IC14
N8X376–011N	NN	24	PLDIL	67	IC14
N8X376–012N	NN	24	PLDIL	67	IC14
N8X376N	NN	24	PLDIL	67	IC14
N8X400AS1SS	–	–	–	67	–
N8X400KT1SK	–	–	–	67	–
N8X401N	N	64	PLDIL	67	IC14
N8X41N	NN	24	PLDIL	63;67	IC14
N8X450N	NN	24	PLDIL	67	IC14
N8X60F	FQ	28	CERDIP	67;91	IC14 IC19

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N8X60N	NQ	28	PLDIL	67;91	IC14 IC19
N82HS1281N	N	28	PLDIL	65	IC10
N82HS187A	AQ	28	PLCC	65	IC10
N82HS187AA	AQ	28	PLCC	65	IC10
N82HS187AF	FN	24	CERDIP	65	–
N82HS187AN	NN	24	PLDIL	65	IC10
N82HS187F	FN	24	CERDIP	65	–
N82HS187N	NN	24	PLDIL	65	IC10
N82HS189A	AQ	28	PLCC	65	IC10
N82HS189AA	AQ	28	PLCC	65	IC10
N82HS189AF	FN	24	CERDIP	65	–
N82HS189AN	N	24	PLDIL	65	IC10
N82HS189F	FN	24	CERDIP	65	–
N82HS189N	NN	24	PLDIL	65	IC10
N82HS191A	A	28	PLCC	65	IC10
N82HS191N	N	24	PLDIL	65	IC10
N82HS191N3	N	24	PLDIL	65	IC10
N82HS195AF	FL	20	CERDIP	65	–
N82HS195AN	NL	20	PLDIL	65	IC10
N82HS195BN	NL	20	PLDIL	65	IC10
N82HS195N	NL	20	PLDIL	65	IC10
N82HS321A	A	28	PLCC	65	IC10
N82HS321AA	A	28	PLCC	65	IC10
N82HS321AF	FN	24	CERDIP	65	IC10
N82HS321AN	NN	24	PLDIL	65	IC10
N82HS321BA	A	28	PLCC	65	IC10
N82HS321BF	NN	24	PLDIL	65	IC10
N82HS321BN	NN	24	PLDIL	65	IC10
N82HS321F	FN	24	CERDIP	65	IC10
N82HS321N	NN	24	PLDIL	65	IC10
N82HS641AF	FN	24	CERDIP	65	IC10
N82HS641AN	NW	24	PLDIL	65	IC10
N82HS641BF	FN	24	CERDIP	65	IC10
N82HS641BN	NW	24	PLDIL	65	IC10
N82HS641F	FN	24	CERDIP	65	IC10
N82HS641N	NW	24	PLDIL	65	IC10
N82LS135A	A	20	PLCC	65	IC10
N82LS135N	NL	20	PLDIL	65	IC10
N82LS16D	D	16	SO16	66	IC10
N82LS16F	FJ	16	CERDIP	66	–
N82LS16N	NJ	16	PLDIL	66	IC10
N82S09A	A	28	PLCC	66	IC10
N82S09AA	A	28	PLCC	66	IC10
N82S09AF	FQ	28	CERDIP	66	–
N82S09AN	N	28	PLDIL	66	IC10
N82S09F	FQ	28	CERDIP	66	–
N82S09N	NQ	28	PLDIL	66	IC10
N82S115F	FN	24	CERDIP	65	–
N82S115I	IN	24	CERDIL	65	–
N82S115N	NN	24	PLDIL	65	IC10
N82S123A	A	20	PLCC	65	IC10
N82S123AA	A	20	PLCC	65	IC10
N82S123AD	DJ	16	SO16	65	–
N82S123AF	FJ	16	CERDIP	65	–
N82S123AN	NJ	16	PLDIL	65	IC10
N82S123D	DJ	16	SO16	65	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N82S123F	FJ	16	CERDIP	65	–
N82S123N	NJ	16	PLDIL	65	IC10
N82S126A	A	20	PLCC	65	IC10
N82S126AA	A	20	PLCC	65	IC10
N82S126AD	DJ	16	SO16	65	–
N82S126AF	FJ	16	CERDIP	65	–
N82S126AN	NJ	16	PLDIL	65	IC10
N82S126F	FJ	16	CERDIP	65	–
N82S126N	NJ	16	PLDIL	65	IC10
N82S129A	A	20	PLCC	65	IC10
N82S129AA	A	20	PLCC	65	IC10
N82S129AD	DJ	16	SO16	65	–
N82S129AF	FJ	16	CERDIP	65	–
N82S129AN	NJ	16	PLDIL	65	IC10
N82S129F	FJ	16	CERDIP	65	–
N82S129N	NJ	16	PLDIL	65	IC10
N82S130A	A	20	PLCC	65	IC10
N82S130AA	A	20	PLCC	65	IC10
N82S130AD	DJ	16	SO16	65	–
N82S130AN	NJ	16	PLDIL	65	IC10
N82S130F	FJ	16	CERDIP	65	–
N82S130N	NJ	16	PLDIL	65	IC10
N82S131A	A	20	PLCC	65	IC10
N82S131AA	A	20	PLCC	65	IC10
N82S131AD	DJ	16	SO16	65	–
N82S131AF	FJ	16	CERDIP	65	–
N82S131AN	NJ	16	PLDIL	65	IC10
N82S131F	FJ	16	CERDIP	65	–
N82S131N	NJ	16	PLDIL	65	IC10
N82S135A	A	20	PLCC	65	IC10
N82S135N	NL	20	PLDIL	65	IC10
N82S137A	A	20	PLCC	65	IC10
N82S137AA	A	20	PLCC	65	IC10
N82S137AF	FK	18	CERDIP	65	–
N82S137AN	NK	18	PLDIL	65	IC10
N82S137BA	A	20	PLCC	65	IC10
N82S137BN	NK	18	PLDIL	65	IC10
N82S137CA	A	20	PLCC	65	IC10
N82S137CN	N	18	PLDIL	65	IC10
N82S137F	FK	18	CERDIP	65	–
N82S137N	NK	18	PLDIL	65	IC10
N82S141AN	N	24	PLDIL	65	IC10
N82S141AN3	N	24	PLDIL	65	IC10
N82S141F	FN	24	CERDIP	65	–
N82S141N	NN	24	PLDIL	65	IC10
N82S141N3	N	24	PLDIL	65	IC10
N82S147A	A	20	PLCC	65	IC10
N82S147AA	A	20	PLCC	65	IC10
N82S147AF	FL	20	CERDIP	65	–
N82S147AN	NL	20	PLDIL	65	IC10
N82S147BA	A	20	PLCC	65	IC10
N82S147BN	N	20	PLDIL	65	IC10
N82S147F	FL	20	CERDIP	65	–
N82S147N	NL	20	PLDIL	65	IC10
N82S16D	D	16	SO16	66	IC10
N82S16F	FJ	16	CERDIP	66	–
N82S16N	NJ	16	PLDIL	66	IC10

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N82S181A	A	28	PLCC	65	IC10
N82S181AA	AQ	28	PLCC	65	IC10
N82S181AF	FN	24	CERDIP	65	–
N82S181AN	NN	24	PLDIL	65	IC10
N82S181CA	A	28	PLCC	65	IC10
N82S181CF	FN	24	CERDIP	65	–
N82S181CF3	FN	24	CERDIP	65	–
N82S181CN	NN	24	PLDIL	65	IC10
N82S181CN3	NN	24	PLDIL	65	IC10
N82S181F	FN	24	CERDIP	65	–
N82S181N	NN	24	PLDIL	65	IC10
N82S183F	FN	24	CERDIP	65	–
N82S183N	NN	24	PLDIL	65	IC10
N82S185AF	FK	18	CERDIP	65	–
N82S185AN	NK	18	PLDIL	65	IC10
N82S185CN	N	18	PLDIL	65	IC10
N82S185F	FK	18	CERDIP	65	–
N82S185N	NK	18	PLDIL	65	IC10
N82S19A	A	28	PLCC	66	IC10
N82S19F	FQ	28	CERDIP	66	–
N82S19N	NQ	28	PLDIL	66	IC10
N82S191A	A	28	PLCC	65	IC10
N82S191AA	A	28	PLCC	65	IC10
N82S191AF	FN	24	CERDIP	65	–
N82S191AN	NN	24	PLDIL	65	IC10
N82S191CA	A	28	PLCC	65	IC10
N82S191CF	FN	24	CERDIP	65	–
N82S191CF3	FN	24	CERDIP	65	–
N82S191CN	NN	24	PLDIL	65	IC10
N82S191CN3	NN	24	PLDIL	65	IC10
N82S191F	FN	24	CERDIP	65	–
N82S191N	NN	24	PLDIL	65	IC10
N82S212A	A	28	PLCC	66	IC10
N82S212AA	A	28	PLCC	66	IC10
N82S212AF	FM	22	CERDIP	66	–
N82S212AN	NM	22	PLDIL	66	IC10
N82S212F	FM	22	CERDIP	66	–
N82S212N	NM	22	PLDIL	66	IC10
N82S23A	A	20	PLCC	65	IC10
N82S23AA	A	20	PLCC	65	IC10
N82S23AD	DJ	16	SO16	65	–
N82S23AN	NJ	16	PLDIL	65	IC10
N82S23F	FJ	16	CERDIP	65	–
N82S23N	NJ	16	PLDIL	65	IC10
N82S25D	D	16	SO16	66	IC10
N82S25F	FJ	16	CERDIP	66	–
N82S25N	NJ	16	PLDIL	66	IC10
N82US123A	A	20	PLCC	66	IC10
N82US123N	N	16	PLDIL	66	IC10
N82US23A	A	20	PLCC	66	IC10
N82US23N	N	16	PLDIL	66	IC10
N8234N	NJ	16	PLDIL	63	–
N8242N	NH	14	PLDIL	62	–
N8262N	NH	14	PLDIL	62	–
N8266N	NJ	16	PLDIL	63	–
N8271N	NJ	16	PLDIL	63	–
N8273N	NJ	16	PLDIL	63	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
N8274N	NJ	16	PLDIL	63	–
N8881N	NH	14	PLDIL	62	–
N9309N	NJ	16	PLDIL	63	–
N9324N	NJ	16	PLDIL	62	–
N9334N	NJ	16	PLDIL	62	–
N9401N	NH	14	PLDIL	67;92	IC09 IC19
N9403N	NN	24	PLDIL	67	IC09
N9602N	NJ	16	PLDIL	63	–
OM200/S2	SOT20	4	SIL	94	IC01
OM8000	PC–board	–	–	72;104;111	–
OM8200	PC–board	–	–	72;104;111	IC01 IC03 IC17
OM8201	PC–board	–	–	104;111	IC01 IC03 IC17
OM8209	PC–board	–	–	72;104;111	–
OM8210	PC–board	–	–	72;104;111	IC01 IC03 IC17
PCA1201T	SOT144	8	MFP	89	IC16
PCA1201U	–	8	PADS	89	IC16
PCA1203T	SOT144	8	MFP	89	IC16
PCA1203U	–	8	PADS	89	IC16
PCA1204T	SOT144	8	MFP	89	IC16
PCA1204U	–	8	PADS	89	IC16
PCA1205T	SOT144	8	MFP	89	IC16
PCA1205U	–	8	PADS	89	IC16
PCA1207T	SOT144	8	MFP	89	IC16
PCA1207U	–	8	PADS	89	IC16
PCA1209T	SOT144	8	MFP	89	IC16
PCA1209U	–	8	PADS	89	IC16
PCA1212T	SOT144	8	MFP	89	IC16
PCA1212U	–	8	PADS	89	IC16
PCA1243T	SOT144	8	MFP	89	IC16
PCA1243U	–	8	PADS	89	IC16
PCA1246T	SOT144	8	MFP	89	IC16
PCA1246U	–	8	PADS	89	IC16
PCA1247T	SOT144	8	MFP	89	IC16
PCA1247U	–	8	PADS	89	IC16
PCA1248T	SOT144	8	MFP	89	IC16
PCA1248U	–	8	PADS	89	IC16
PCA1249T	SOT144	8	MFP	89	IC16
PCA1249U	–	8	PADS	89	IC16
PCA1260T	SOT144	8	MFP	89	IC16
PCA1260U	–	8	PADS	89	IC16
PCA1261T	SOT144	8	MFP	89	IC16
PCA1261U	–	8	PADS	89	IC16
PCA1401T	SOT144	8	MFP	89	IC16
PCA1401U	–	8	PADS	89	IC16
PCA1403T	SOT144	8	MFP	89	IC16
PCA1403U	–	8	PADS	89	IC16
PCA1404T	SOT144	8	MFP	89	IC16
PCA1404U	–	8	PADS	89	IC16
PCA1408T	SOT144	8	MFP	89	IC16
PCA1408U	–	8	PADS	89	IC16

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
PCA1409T	SOT144	8	MFP	89	IC16
PCA1409U	–	8	PADS	89	IC16
PCA1411T	SOT144	8	MFP	90	IC16
PCA1411U	–	8	PADS	90	IC16
PCA1412T	SOT144	8	MFP	90	IC16
PCA1412U	–	8	PADS	90	IC16
PCA1426T	SOT144	8	MFP	90	IC16
PCA1426U	–	8	PADS	90	IC16
PCA1446T	SOT144	8	MFP	90	IC16
PCA1446U	–	8	PADS	90	IC16
PCA1449T	SOT144	8	MFP	90	IC16
PCA1449U	–	8	PADS	90	IC16
PCA1460T	SOT144	8	MFP	90	IC16
PCA1460U	–	8	PADS	90	IC16
PCA1461T	SOT144	8	MFP	90	IC16
PCA1461U	–	8	PADS	90	IC16
PCA1462T	SOT144	8	MFP	90	IC16
PCA1462U	–	8	PADS	90	IC16
PCA1463T	SOT144	8	MFP	90	IC16
PCA1463U	–	8	PADS	90	IC16
PCA1512P	SOT97A	8	DIL	89	IC16
PCA1517P	SOT97A	8	DIL	89	IC16
PCA1584P	SOT97A	8	DIL	89	IC16
PCA1584T	SOT96C	8	SO8	89	IC16
PCA1585P	SOT97A	8	DIL	89	IC16
PCA1585T	SOT96C	8	SO8	89	IC16
PCA1586P	SOT97A	8	DIL	89	IC16
PCA1586T	SOT96C	8	SO8	89	IC16
PCA1587P	SOT97A	8	DIL	89	IC16
PCA1587T	SOT96C	8	SO8	89	IC16
PCA1590P	SOT97A	8	DIL	89	–
PCA1590T	SOT96C	8	SO8	89	–
PCA1590U/10	–	8	FFC	89	–
PCA5000T	SOT136A	28	SO28	112	IC17
PCA80C31BH–3P	SOT129	40	DIL	67;100;120	DS
PCA80C31BH–3WP	SOT187AA	44	PLCC	67;100;120	DS
PCA80C39P	SOT129	40	DIL	67;100	–
PCA80C39WP	SOT187AA	44	PLCC	67;100	–
PCA80C49P	SOT129	40	DIL	67;100	–
PCA80C49WP	SOT187AA	44	PLCC	67;100	–
PCA80C51BH–3P	SOT129	40	DIL	67;100;120	DS
PCA80C51BH–3WP	SOT187AA	44	PLCC	67;100;120	DS
PCA80C552WP	SOT188AA	68	PLCC	67;98;100;116;120	DS
PCA80C562WP	SOT188AA	68	PLCC	67	–
PCA80C652P	SOT129		DIL	67;98;100;116;120	DS
PCA80C652WP	SOT187AA		PLCC	67;98;100;116;120	DS
PCA83C552WP	SOT188AA	68	PLCC	67;98;100;116;120	DS
PCA83C562WP	SOT188AA	68	PLCC	68	–
PCA83C652P	SOT129	40	DIL	68;98;100;117;120	DS
PCA83C652WP	SOT187AA	44	PLCC	68;98;100;117;120	DS
PCA83C654P	SOT129	40	DIL	68;98;100;117;120	IC02
PCA83C654WP	SOT187AA	44	PLCC	68;98;100;117;120	IC02
PCB2310WP	SOT187	44	PLCC	74;91;111	IC17
PCB2320P	SOT117	28	DIL	91;111	–
PCB2390	–	–	–	74;91;111	IC17
PCB5010WP–8	SOT188AA	68	PLCC	64;112	DS
PCB5011YC–8	–	144	PGA	64;112	DS

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
PCB80C31BH-3P	SOT129	40	DIL	68;100;120	DS
PCB80C31BH-3WP	SOT187AA	44	PLCC	68;100;120	DS
PCB80C39P	SOT129	40	DIL	68;100;120	IC14
PCB80C39WP	SOT187AA	44	PLCC	68;100;120	IC14
PCB80C49P	SOT129	40	DIL	68;100;120	IC14
PCB80C49WP	SOT187AA	44	PLCC	68;100;120	IC14
PCB80C51BH-3P	SOT129	40	DIL	68;101;120	DS
PCB80C51BH-3WP	SOT187AA	44	PLCC	68;101;120	DS
PCB80C552WP	SOT188AA	68	PLCC	68;98;101;107; 109;110;117;120	DS
PCB80C562WP	SOT188AA	68	PLCC	68	–
PCB80C652P	SOT129	40	DIL	68;98;101;107; 109;110;120	DS
PCB80C652WP	SOT187AA	44	PLCC	68;98;101;107; 109;110;120	DS
PCB80C851P	SOT129	40	DIL	68;109;110	–
PCB80C851WP	SOT187AA	44	PLCC	68;109;110	–
PCB83C552WP	SOT188AA	68	PLCC	68;98;101;117;120	DS
PCB83C562WP	SOT188AA	68	PLCC	68	–
PCB83C652P	SOT129	40	DIL	68;99;101;107; 111;117;120	DS
PCB83C652WP	SOT187AA	44	PLCC	68;99;101;107; 111;117;120	DS
PCB83C654P	SOT129	40	DIL	68;99;101;117;120	IC02
PCB83C654WP	SOT187AA	44	PLCC	68;99;101;117;120	IC02
PCB83C851P	SOT129	40	DIL	68;109;110	–
PCB83C851WP	SOT187AA	44	PLCC	68;109;110	–
PCC0800	–	–	–	130	–
PCC1500	–	–	–	130	–
PCC2400	–	–	–	130	–
PCD3300B		28	PB	109	–
PCD3310AP	SOT146	28	DIL	107	IC03
PCD3310AT	SOT136A	28	SO28	107	IC03 IC12 IC17
PCD3310CP	SOT146	20	DIL	107	IC03
PCD3310CT	SOT136A	28	SO28	107	IC03
PCD3310P	SOT146	20	DIL	106	IC03
PCD3310T	SOT136A	28	SO	106	IC03
PCD3311AT	SOT162A	16	SO16L	106;108;110	IC03
PCD3311P	SOT27	14	DIL	106;108	IC03 IC12 IC17
PCD3311T	SOT162A	16	SO16L	106;108	IC03 IC12 IC17
PCD3312P	SOT97	8	DIL	106;108;110	IC03 IC12 IC17
PCD3312T	SOT176	8	SO8L	106;108;110	IC03 IC12 IC17
PCD3315/502P	SOT117	28	DIL	107;110	–
PCD3315/502T	SOT136A	28	SO28	107;110	–
PCD3315/503P	SOT117	28	DIL	107	IC03
PCD3315/503T	SOT136A	28	SO28	107	IC03
PCD3315/512P	SOT117	28	DIL	107	–

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PCD3315/512T	SOT136A	28	SO28	107	–
PCD3315/513P	SOT117	28	DIL	107	–
PCD3315/513T	SOT136A	28	SO28	107	–
PCD3315/534P	SOT117		DIL	111	–
PCD3315/534T	SOT136A		SO28	111	–
PCD3315CP	SOT117	28	DIL	68;108;109	IC03 IC12
PCD3315CT	SOT136A	28	SO28	68;108;109	IC03 IC12
PCD3320CD	SOT133B	18	CERDIP	106	DS
PCD3320CP	SOT102G	18	DIL	106	DS
PCD3321CD	SOT133B	18	CERDIP	106	DS
PCD3321CP	SOT102G	18	DIL	106	DS
PCD3321CT	SOT163A	20	SO20	106	DS
PCD3322CP	SOT102G	18	DIL	106	DS
PCD3322CT	SOT163A	20	SO20	106	DS
PCD3323D	SOT135A	28	DIL	106	IC03
PCD3323P	SOT117	28	DIL	106	IC03
PCD3323T	SOT136A	28	SO28	106	IC03
PCD3324CP	SOT102G	18	DIL	106	DS
PCD3325CP	SOT102G	18	DIL	106	DS
PCD3326CP	SOT102G	18	DIL	106	DS
PCD3327CP	SOT102G	18	DIL	106	DS
PCD3327CT	SOT163A	20	SO20	106	DS
PCD3327CU		20	PADS	106	DS
PCD3341P	SOT117	18	DIL	107;108	IC03
PCD3341T	SOT136A	28	SO28	107;108	IC03
PCD3343D	SOT135A	28	DIL	68;108;109	IC03 IC12
PCD3343P	SOT117	28	DIL	68;108;109	IC03 IC12
PCD3343T	SOT136A	28	SO28	68;108;109	IC03 IC12
PCD3344/004P	SOT117	28	DIL	107	–
PCD3344/004T	SOT136A	28	SO28	107	–
PCD3344/006P	SOT117	28	DIL	107	–
PCD3344/006T	SOT136A	28	SO28	107	–
PCD3344B		28	PB	108;109	–
PCD3344P	SOT117	28	DIL	108;109;111	IC03
PCD3344T	SOT136A	28	SO28	108;109;111	IC03
PCD3346P	SOT117	28	DIL	108;109	–
PCD3346T	SOT136A	28	SO28	108;109	–
PCD3347P	SOT146	20	DIL	108;109	IC03
PCD3347T	SOT163A	20	SO20	108;109	IC03
PCD3348P	SOT117	28	DIL	68;108;109	–
PCD3348T	SOT136A	28	SO28	68;108;109	–
PCD3349P	SOT117	28	DIL	108;109	IC03
PCD3349T	SOT136A	28	SO28	108;109	IC03
PCD3360P	SOT38	16	DIL	111	IC03
PCD3360T	SOT162A	16	SO16L	111	IC03
PCD4410	SOT102	18	DIL	107	DS
PCD4413	SOT102	18	DIL	107	IC03
PCD4413A	SOT102	18	DIL	107	–
PCD4415AP	SOT102	18	DIL	107	–
PCD4415AT	SOT163A	20	SO20	107	–
PCD4415P	SOT102	18	DIL	107	IC03
PCD4415T	SOT163A	20	SO20	107	IC03

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PCD5101P	SOT116	22	DIL	66	IC10
PCD5101T	SOT137A	24	SO24	66	IC10
PCD5114D	SOT133	18	DIL	66	IC10
PCD5114P	SOT102G	18	DIL	66	IC10
PCD5114T	SOT163A	20	SO20	66	IC10
PCF0800	–	–	–	130	–
PCF1171BT	SOT158B	40	VSO40	90	IC16
PCF1171U	uncased	40	PADS	90	IC16
PCF1172BT	SOT158B	40	VSO40	90	IC16
PCF1172U	uncased	40	PADS	90	IC16
PCF1174BT	SOT158B	40	VSO40	90	DS
PCF1174U	uncased	40	PADS	90	DS
PCF1175T	SOT136A	28	SO28	90	DS
PCF1175U	uncased	28	PADS	90	DS
PCF1175U/10		28	FFC	90	DS
PCF1176BT	SOT158B	40	VSO40	90	DS
PCF1176U	uncased	40	PADS	90	DS
PCF1178T	SOT136A	28	SO28	90	DS
PCF1178U	uncased	28	PADS	90	DS
PCF1178U/10		28	FFC	90	DS
PCF1178U/5			UW	90	DS
PCF1303T	SOT136A	28	SO28	96;115	IC01 IC02
PCF1500	–	–	–	130	–
PCF2100P	SOT117	28	DIL	72;96;115	IC01 IC02
PCF2100T	SOT136A	28	SO28	72;96;115	IC01 IC02 IC03 IC17
PCF2110P	SOT129	40	DIL	72;96;115	IC01 IC02 IC03 IC17
PCF2110T	SOT158A	40	VSO40	72;96;115	IC01 IC02 IC03 IC17
PCF2111P	SOT129	40	DIL	72;96;107;115	IC01 IC02 IC03 IC17
PCF2111T	SOT158A	40	VSO40	72;96;107;115	IC01 IC02 IC03 IC17
PCF2112P	SOT129	40	DIL	72;96;115	IC01 IC02 IC03 IC17
PCF2112T	SOT158A	40	VSO40	72;96;115	IC01 IC02 IC03 IC17
PCF2201V	–	120	TAB	72;96;107;115	IC01 IC02
PCF2400	–	–	–	130	–

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PCF3016	–	–	–	131	–
PCF3025	–	–	–	131	–
PCF3035	–	–	–	131	–
PCF3046	–	–	–	131	–
PCF3064	–	–	–	131	–
PCF3090	–	–	–	131	–
PCF3127	–	–	–	131	–
PCF4420P	SOT38	16	DIL	106	–
PCF4420T	SOT162A	16	SO16L	106	–
PCF4421P	SOT102	18	DIL	106	–
PCF4421T	SOT163A	20	SO20	106	–
PCF5010WP–8	SOT188A	68	PLCC	64;112	DS
PCF5011YC–8	–	144	PGA	64;112	DS
PCF5022WP	SOT187A	44	PLCC	95	DS
PCF5023WP	SOT187A	44	PLCC	95	DS
PCF80C31BH–3P	SOT129	40	DIL	68;101;120	DS
PCF80C31BH–3WP	SOT187AA	44	PLCC	68;101;120	DS
PCF80C39P	SOT129	40	DIL	68;101;120	IC14
PCF80C39WP	SOT187AA	44	PLCC	68;101;120	IC14
PCF80C49P	SOT129	40	DIL	68;101;120	IC14
PCF80C49WP	SOT187AA	44	PLCC	68;101;120	IC14
PCF80C51BH–3P	SOT129	40	DIL	68;101;120	DS
PCF80C51BH–3WP	SOT187AA	44	PLCC	68;101;120	DS
PCF80C552WP	SOT188AA	68	PLCC	69;99;101;117;120	–
PCF80C562WP	SOT188AA	68	PLCC	69	–
PCF80C652P	SOT129		DIL	69;99;101;117;121	DS
PCF80C652WP	SOT187AA		PLCC	69;99;101;117;121	DS
PCF80C851P	SOT129	40	DIL	69;110	–
PCF80C851WP	SOT187AA	44	PLCC	69;110	–
PCF8200	SOT101A	24	DIL	72;99;104;108;111	IC01 IC03 IC12 IC17
PCF83C552WP	SOT188AA	68	PLCC	69;99;101;117;121	–
PCF83C562WP	SOT188AA	68	PLCC	69	–
PCF83C652P	SOT129	40	DIL	69;99;101;117;121	DS
PCF83C652WP	SOT187AA	44	PLCC	69;99;101;117;121	DS
PCF83C654P	SOT129	40	DIL	69;99;101;117;121	–
PCF83C654WP	SOT187AA	44	PLCC	69;99;101;117;121	–
PCF83C851P	SOT129	40	DIL	69;110	–
PCF83C851WP	SOT187AA	44	PLCC	69;110	–
PCF84C00B	–	28	PB	69;101;117	DS
PCF84C00T	SOT190	56	VSO56	69;101;117	DS
PCF84C12P	SOT146	20	DIL	69;101;117	DS
PCF84C12T	SOT163A	20	SO20	69;101;117	DS
PCF84C121P	SOT146	20	DIL	69	DS
PCF84C121T	SOT163A	20	SO20	69	DS
PCF84C21P	SOT117	28	DIL	69;101;117	DS
PCF84C21T	SOT136A	28	SO28	69;101;117	DS
PCF84C22P	SOT146	20	DIL	69	DS
PCF84C22T	SOT163A	20	SO20	69	DS
PCF84C230P	SOT129	40	DIL	69	–
PCF84C230T	SOT158A	40	VSO40	69	–
PCF84C270P	SOT129	40	DIL	69	DS
PCF84C271P	SOT129	40	DIL	69	DS
PCF84C41P	SOT117	28	DIL	69;101;117	DS
PCF84C41T	SOT136A	28	SO28	69;101;117	DS

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PCF84C42P	SOT146	20	DIL	69	DS
PCF84C42T	SOT163A	20	SO20	69	DS
PCF84C430H	SOT208	64	QFP	69	DS
PCF84C470P	SOT129	40	DIL	69	–
PCF84C633T	SOT190	56	VSO56	69	–
PCF84C81P	SOT117	28	DIL	69;101;117	DS
PCF84C81T	SOT136A	28	SO28	69;101;117	DS
PCF84C85P	SOT129	40	DIL	69;101;117	DS
PCF84C85T	SOT158A	40	VSO40	69;101;117	DS
PCF84C853P	SOT129	40	DIL	69	–
PCF84C853T	SOT158A	40	VSO40	69	–
PCF8566P	SOT129	40	DIL	72;96;99;107; 108;115;117	IC01 IC02 IC03 IC12 IC14 IC17
PCF8566T	SOT158A	40	VSO40	72;96;99;107; 108;115;117	IC01 IC02 IC03 IC12 IC14 IC17
PCF8570CP	SOT97	8	DIL	66	IC02 IC03 IC12 IC17
PCF8570CT	SOT176	8	SO8L	66	IC02 IC03 IC12 IC17
PCF8570P	SOT97	8	DIL	66;72;99;100; 108;109;117;119	IC02 IC03 IC12 IC14 IC17
PCF8570T	SOT176	8	SO8L	66;72;99;100; 108;109;117;119	IC02 IC03 IC12 IC14 IC17
PCF8571P	SOT97	8	DIL	66;72;99;100; 108;109;117;119	IC02 IC03 IC12 IC14 IC17
PCF8571T	SOT176	8	SO8L	66;72;99;100; 108;109;117;119	IC02 IC03 IC12 IC14 IC17
PCF8573P	SOT38	16	DIL	72;95;99;106; 108;113;117	IC01 IC02 IC03 IC12 IC14 IC17

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PCF8573T	SOT162A	16	SO16L	72;95;99;106; 108;113;117	IC01 IC02 IC03 IC12 IC14 IC17
PCF8574AP	SOT38	16	DIL	72;83;99;104; 108;111;124	IC01 IC02 IC03 IC12 IC17
PCF8574AT	SOT162A	16	SO16L	72;83;99;104; 108;111;124	IC01 IC02 IC03 IC12 IC17
PCF8574P	SOT38	16	DIL	72;83;99;104; 108;111;117;124	IC01 IC02 IC03 IC12 IC14 IC17
PCF8574T	SOT162A	16	SO16L	72;83;99;104; 108;111;117;124	IC01 IC02 IC03 IC12 IC14 IC17
PCF8576T	SOT190	56	VSO56	72;96;99;107; 108;115;117	IC02 IC03 IC12 IC14 IC17
PCF8576U	–	56	PADS	72;96;99;107; 108;115;117	IC02 IC03 IC12 IC14 IC17
PCF8576U/10	–	56	FFC	72;96;99;107; 108;115;117	IC02 IC03 IC12 IC14 IC17
PCF8577AP	SOT129	40	DIL	72;96;99;107; 108;115	IC01 IC02 IC03 IC12 IC14 IC17
PCF8577AT	SOT158A	40	VSO40	72;96;99;107; 108;115	IC01 IC02 IC03 IC12 IC14 IC17
PCF8577P	SOT129	40	DIL	72;96;99;107; 108;115;117	IC01 IC02

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PCF8577P	SOT129	40	DIL	72;96;99;107; 108;115;117	IC03 IC12 IC14 IC17
PCF8577T	SOT158A	40	VSO40	72;96;99;107; 108;115;117	IC01 IC02 IC03 IC12 IC14 IC17
PCF8578T	SOT190	56	VSO56	72;96;99;107; 115;117	IC03 IC12 IC17
PCF8578U	–	56	PADS	72;96;99;107; 115;117	IC03 IC12 IC17
PCF8579T	SOT190	56	VSO56	72;96;99;107; 115;117	IC03 IC12 IC17
PCF8579U	–	56	PADS	72;96;99;107; 115;117	IC03 IC12 IC17
PCF8582AP	SOT97	8	DIL	65;72;99;100; 108;109;117;119	IC03 IC17
PCF8582AT	SOT162A	16	SO16L	65;72;99;100; 108;109;117;119	IC03 IC17
PCF8583P	SOT97	8	DIL	66;73;95;99;106; 113;118;119	IC01 IC02 IC03 IC10 IC12 IC14 IC17
PCF8583T	SOT176	8	SO8L	66;73;95;99;106; 113;118;119	IC01 IC02 IC03 IC10 IC12 IC14 IC17
PCF8591P	SOT38	16	DIL	73;80;95;99;106; 108;110;114;118	IC01 IC02 IC03 IC12 IC14 IC17
PCF8591T	SOT162A	16	SO16L	73;80;95;99;106; 108;110;114;118	IC01 IC02 IC03 IC12 IC14 IC17
PC74HCT00P	SOT27	14	DIL	26	IC06
PC74HCT00T	SOT108A	14	SO14	26	IC06
PC74HCT02P	SOT27	14	DIL	26	IC06
PC74HCT02T	SOT108A	14	SO14	26	IC06
PC74HCT03P	SOT27	14	DIL	26	IC06

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PC74HCT03T	SOT108A	14	SO14	26	IC06
PC74HCT04P	SOT27	14	DIL	26	IC06
PC74HCT04T	SOT108A	14	SO14	26	IC06
PC74HCT08P	SOT27	14	DIL	26	IC06
PC74HCT08T	SOT108A	14	SO14	26	IC06
PC74HCT10P	SOT27	14	DIL	26	IC06
PC74HCT10T	SOT108A	14	SO14	26	IC06
PC74HCT107P	SOT27	14	DIL	26	IC06
PC74HCT107T	SOT108A	14	SO14	26	IC06
PC74HCT109P	SOT38Z	16	DIL	26	IC06
PC74HCT109T	SOT109A	16	SO16	26	IC06
PC74HCT11P	SOT27	14	DIL	26	IC06
PC74HCT11T	SOT108A	14	SO14	26	IC06
PC74HCT112P	SOT38Z	16	DIL	26	IC06
PC74HCT112T	SOT109A	16	SO16	26	IC06
PC74HCT123P	SOT38Z	16	DIL	27	IC06
PC74HCT123T	SOT109A	16	SO16	27	IC06
PC74HCT125P	SOT27	14	DIL	23	IC06
PC74HCT125T	SOT108A	14	SO14	23	IC06
PC74HCT126P	SOT27	14	DIL	23	IC06
PC74HCT126T	SOT108A	14	SO14	23	IC06
PC74HCT132P	SOT27	14	DIL	28	IC06
PC74HCT132T	SOT108A	14	SO14	28	IC06
PC74HCT137P	SOT38Z	16	DIL	24	IC06
PC74HCT137T	SOT109A	16	SO16	24	IC06
PC74HCT138P	SOT38Z	16	DIL	24	IC06
PC74HCT138T	SOT109A	16	SO16	24	IC06
PC74HCT139P	SOT38Z	16	DIL	24	IC06
PC74HCT139T	SOT109A	16	SO16	24	IC06
PC74HCT14P	SOT27	14	DIL	28	IC06
PC74HCT14T	SOT108A	14	SO14	28	IC06
PC74HCT147P	SOT38Z	16	DIL	25	IC06
PC74HCT147T	SOT109A	16	SO16	25	IC06
PC74HCT151P	SOT38Z	16	DIL	27	IC06
PC74HCT151T	SOT109A	16	SO16	27	IC06
PC74HCT153P	SOT38Z	16	DIL	27	IC06
PC74HCT153T	SOT109A	16	SO16	27	IC06
PC74HCT154P	SOT101A	24	DIL	24	IC06
PC74HCT154T	SOT137A	24	SO24	24	IC06
PC74HCT157P	SOT38Z	16	DIL	27	IC06
PC74HCT157T	SOT109A	16	SO16	27	IC06
PC74HCT158P	SOT38Z	16	DIL	27	IC06
PC74HCT158T	SOT109A	16	SO16	27	IC06
PC74HCT160P	SOT38Z	16	DIL	24	IC06
PC74HCT160T	SOT109A	16	SO16	24	IC06
PC74HCT161P	SOT38Z	16	DIL	24	IC06
PC74HCT161T	SOT109A	16	SO16	24	IC06
PC74HCT162P	SOT38Z	16	DIL	24	IC06
PC74HCT162T	SOT109A	16	SO16	24	IC06
PC74HCT163P	SOT38Z	16	DIL	24	IC06
PC74HCT163T	SOT109A	16	SO16	24	IC06
PC74HCT164P	SOT27	14	DIL	27	IC06
PC74HCT164T	SOT108A	14	SO14	27	IC06
PC74HCT165P	SOT38Z	16	DIL	27	IC06
PC74HCT165T	SOT109A	16	SO16	27	IC06
PC74HCT166P	SOT38Z	16	DIL	27	IC06
PC74HCT166T	SOT109A	16	SO16	27	IC06

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PC74HCT173P	SOT38Z	16	DIL	25	IC06
PC74HCT173T	SOT109A	16	SO16	25	IC06
PC74HCT174P	SOT38Z	16	DIL	25	IC06
PC74HCT174T	SOT109A	16	SO16	25	IC06
PC74HCT175P	SOT38Z	16	DIL	25	IC06
PC74HCT175T	SOT109A	16	SO16	25	IC06
PC74HCT181P	SOT101A	24	DIL	23	IC06
PC74HCT181T	SOT137A	24	SO24	23	IC06
PC74HCT182P	SOT38Z	16	DIL	23	IC06
PC74HCT182T	SOT109A	16	SO16	23	IC06
PC74HCT190P	SOT38Z	16	DIL	24	IC06
PC74HCT190T	SOT109A	16	SO16	24	IC06
PC74HCT191P	SOT38Z	16	DIL	24	IC06
PC74HCT191T	SOT109A	16	SO16	24	IC06
PC74HCT192P	SOT38Z	16	DIL	24	IC06
PC74HCT192T	SOT109A	16	SO16	24	IC06
PC74HCT193P	SOT38Z	16	DIL	24	IC06
PC74HCT193T	SOT109A	16	SO16	24	IC06
PC74HCT194P	SOT38Z	16	DIL	28	IC06
PC74HCT194T	SOT109A	16	SO16	28	IC06
PC74HCT195P	SOT38Z	16	DIL	28	IC06
PC74HCT195T	SOT109A	16	SO16	28	IC06
PC74HCT20P	SOT27	14	DIL	26	IC06
PC74HCT20T	SOT108A	14	SO14	26	IC06
PC74HCT21P	SOT27	14	DIL	26	IC06
PC74HCT21T	SOT108A	14	SO14	26	IC06
PC74HCT221P	SOT38Z	16	DIL	27	IC06
PC74HCT221T	SOT109A	16	SO16	27	IC06
PC74HCT237P	SOT38Z	16	DIL	24	IC06
PC74HCT237T	SOT109A	16	SO16	24	IC06
PC74HCT238P	SOT38Z	16	DIL	24	IC06
PC74HCT238T	SOT109A	16	SO16	24	IC06
PC74HCT240P	SOT146	20	DIL	23	IC06
PC74HCT240T	SOT163A	20	SO20	23	IC06
PC74HCT241P	SOT146	20	DIL	23	IC06
PC74HCT241T	SOT163A	20	SO20	23	IC06
PC74HCT242P	SOT27	14	DIL	23;28	IC06
PC74HCT242T	SOT108A	14	SO14	23;28	IC06
PC74HCT243P	SOT27	14	DIL	23;28	IC06
PC74HCT243T	SOT108A	14	SO14	23;28	IC06
PC74HCT244P	SOT146	20	DIL	23	IC06
PC74HCT244T	SOT163A	20	SO20	23	IC06
PC74HCT245P	SOT146	20	DIL	23;28	IC06
PC74HCT245T	SOT163A	20	SO20	23;28	IC06
PC74HCT251P	SOT38Z	16	DIL	27	IC06
PC74HCT251T	SOT109A	16	SO16	27	IC06
PC74HCT253P	SOT38Z	16	DIL	27	IC06
PC74HCT253T	SOT109A	16	SO16	27	IC06
PC74HCT257P	SOT38Z	16	DIL	27	IC06
PC74HCT257T	SOT109A	16	SO16	27	IC06
PC74HCT258P	SOT38Z	16	DIL	27	IC06
PC74HCT258T	SOT109A	16	SO16	27	IC06
PC74HCT259P	SOT38Z	16	DIL	27	IC06
PC74HCT259T	SOT109A	16	SO16	27	IC06
PC74HCT27P	SOT27	14	DIL	26	IC06
PC74HCT27T	SOT108A	14	SO14	26	IC06
PC74HCT273P	SOT146	20	DIL	25	IC06

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PC74HCT273T	SOT163A	20	SO20	25	IC06
PC74HCT280P	SOT27	14	DIL	23	IC06
PC74HCT280T	SOT108A	14	SO14	23	IC06
PC74HCT283P	SOT38Z	16	DIL	23	IC06
PC74HCT283T	SOT109A	16	SO16	23	IC06
PC74HCT297P	SOT38Z	16	DIL	28	IC06
PC74HCT297T	SOT109A	16	SO16	28	IC06
PC74HCT299P	SOT146	20	DIL	28	IC06
PC74HCT299T	SOT163A	20	SO20	28	IC06
PC74HCT30P	SOT27	14	DIL	26	IC06
PC74HCT30T	SOT108A	14	SO14	26	IC06
PC74HCT32P	SOT27	14	DIL	26	IC06
PC74HCT32T	SOT108A	14	SO14	26	IC06
PC74HCT354P	SOT146	20	DIL	27;28	IC06
PC74HCT354T	SOT163A	20	SO20	27;28	IC06
PC74HCT356P	SOT146	20	DIL	27;28	IC06
PC74HCT356T	SOT163A	20	SO20	27;28	IC06
PC74HCT365P	SOT38Z	16	DIL	23	IC06
PC74HCT365T	SOT109A	16	SO16	23	IC06
PC74HCT366P	SOT38Z	16	DIL	23	IC06
PC74HCT366T	SOT109A	16	SO16	23	IC06
PC74HCT367P	SOT38Z	16	DIL	23	IC06
PC74HCT367T	SOT109A	16	SO16	23	IC06
PC74HCT368P	SOT38Z	16	DIL	23	IC06
PC74HCT368T	SOT109A	16	SO16	23	IC06
PC74HCT373P	SOT146	20	DIL	25	IC06
PC74HCT373T	SOT163A	20	SO20	25	IC06
PC74HCT374P	SOT146	20	DIL	25	IC06
PC74HCT374T	SOT163A	20	SO20	25	IC06
PC74HCT377P	SOT146	20	DIL	25	IC06
PC74HCT377T	SOT163A	20	SO20	25	IC06
PC74HCT390P	SOT38Z	16	DIL	24	IC06
PC74HCT390T	SOT109A	16	SO16	24	IC06
PC74HCT393P	SOT38Z	16	DIL	24	IC06
PC74HCT393T	SOT109A	16	SO16	24	IC06
PC74HCT4002P	SOT27	14	DIL	26	IC06
PC74HCT4002T	SOT108A	14	SO14	26	IC06
PC74HCT40102P	SOT38Z	16	DIL	24	IC06
PC74HCT40102T	SOT109A	16	SO16	24	IC06
PC74HCT40103P	SOT38Z	16	DIL	24	IC06
PC74HCT40103T	SOT109A	16	SO16	24	IC06
PC74HCT40104P	SOT38Z	16	DIL	28	IC06
PC74HCT40104T	SOT109A	16	SO16	28	IC06
PC74HCT40105P	SOT38Z	16	DIL	28;91	IC06
PC74HCT40105T	SOT109A	16	SO16	28;91	IC06
PC74HCT4015P	SOT38Z	16	DIL	28	IC06
PC74HCT4015T	SOT109A	16	SO16	28	IC06
PC74HCT4016P	SOT27	14	DIL	28	IC06
PC74HCT4016T	SOT108A	14	SO14	28	IC06
PC74HCT4017P	SOT38Z	16	DIL	24	IC06
PC74HCT4017T	SOT109A	16	SO16	24	IC06
PC74HCT4020P	SOT38Z	16	DIL	24	IC06
PC74HCT4020T	SOT109A	16	SO16	24	IC06
PC74HCT4024P	SOT27	14	DIL	24	IC06
PC74HCT4024T	SOT108A	14	SO14	24	IC06
PC74HCT4040P	SOT38Z	16	DIL	24	IC06
PC74HCT4040T	SOT109A	16	SO16	24	IC06

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PC74HCT4046AP	SOT38Z	16	DIL	28;91	IC06
PC74HCT4046AT	SOT109A	16	SO16	28;91	IC06
PC74HCT4051P	SOT38Z	16	DIL	24;27	IC06
PC74HCT4051T	SOT109A	16	SO16	24;27	IC06
PC74HCT4052P	SOT38Z	16	DIL	24;27	IC06
PC74HCT4052T	SOT109A	16	SO16	24;27	IC06
PC74HCT4053P	SOT38Z	16	DIL	24;27	IC06
PC74HCT4053T	SOT109A	16	SO16	24;27	IC06
PC74HCT4059P	SOT101A	24	DIL	24	IC06
PC74HCT4059T	SOT137A	24	SO24	24	IC06
PC74HCT4060P	SOT38Z	16	DIL	24	IC06
PC74HCT4060T	SOT109A	16	SO16	24	IC06
PC74HCT4066P	SOT27	14	DIL	28	IC06
PC74HCT4066T	SOT108A	14	SO14	28	IC06
PC74HCT4067P	SOT101A	24	DIL	24;27	IC06
PC74HCT4067T	SOT137A	24	SO24	24;27	IC06
PC74HCT4075P	SOT27	14	DIL	26	IC06
PC74HCT4075T	SOT108A	14	SO14	26	IC06
PC74HCT4094P	SOT38Z	16	DIL	28	IC06
PC74HCT4094T	SOT109A	16	SO16	28	IC06
PC74HCT42P	SOT38Z	16	DIL	24	IC06
PC74HCT42T	SOT109A	16	SO16	24	IC06
PC74HCT423P	SOT38Z	16	DIL	27	IC06
PC74HCT423T	SOT109A	16	SO16	27	IC06
PC74HCT4316P	SOT38Z	16	DIL	28	IC06
PC74HCT4316T	SOT109A	16	SO16	28	IC06
PC74HCT4351P	SOT102	18	DIL	25;27	IC06
PC74HCT4351T	SOT163A	20	SO20	25;27	IC06
PC74HCT4352P	SOT102	18	DIL	25;27	IC06
PC74HCT4352T	SOT163A	20	SO20	25;27	IC06
PC74HCT4353P	SOT102	18	DIL	25;27	IC06
PC74HCT4353T	SOT163A	20	SO20	25;27	IC06
PC74HCT4510P	SOT38Z	16	DIL	24	IC06
PC74HCT4510T	SOT109A	16	SO16	24	IC06
PC74HCT4511P	SOT38Z	16	DIL	24;25	IC06
PC74HCT4511T	SOT109A	16	SO16	24;25	IC06
PC74HCT4514P	SOT101A	24	DIL	24;25	IC06
PC74HCT4514T	SOT137A	24	SO24	24;25	IC06
PC74HCT4515P	SOT101A	24	DIL	24;25	IC06
PC74HCT4515T	SOT137A	24	SO24	24;25	IC06
PC74HCT4516P	SOT38Z	16	DIL	24	IC06
PC74HCT4516T	SOT109A	16	SO16	24	IC06
PC74HCT4518P	SOT38Z	16	DIL	24	IC06
PC74HCT4518T	SOT109A	16	SO16	24	IC06
PC74HCT4520P	SOT38Z	16	DIL	24	IC06
PC74HCT4520T	SOT109A	16	SO16	24	IC06
PC74HCT4538P	SOT27	14	DIL	27	IC06
PC74HCT4538T	SOT108A	14	SO14	27	IC06
PC74HCT4543P	SOT38Z	16	DIL	24;25	IC06
PC74HCT4543T	SOT109A	16	SO16	24;25	IC06
PC74HCT533P	SOT146	20	DIL	25	IC06
PC74HCT533T	SOT163A	20	SO20	25	IC06
PC74HCT534P	SOT146	20	DIL	25	IC06
PC74HCT534T	SOT163A	20	SO20	25	IC06
PC74HCT540P	SOT146	20	DIL	23	IC06
PC74HCT540T	SOT163A	20	SO20	23	IC06
PC74HCT541P	SOT146	20	DIL	23	IC06

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PC74HCT541T	SOT163A	20	SO20	23	IC06
PC74HCT5555P	SOT38Z	16	DIL	27	IC06
PC74HCT5555T	SOT109A	16	SO16	27	IC06
PC74HCT563P	SOT146	20	DIL	25	IC06
PC74HCT563T	SOT163A	20	SO20	25	IC06
PC74HCT564P	SOT146	20	DIL	25	IC06
PC74HCT564T	SOT163A	20	SO20	25	IC06
PC74HCT573P	SOT146	20	DIL	25	IC06
PC74HCT573T	SOT163A	20	SO20	25	IC06
PC74HCT574P	SOT146	20	DIL	25	IC06
PC74HCT574T	SOT163A	20	SO20	25	IC06
PC74HCT583P	SOT38Z	16	DIL	23	IC06
PC74HCT583T	SOT109A	16	SO16	23	IC06
PC74HCT597P	SOT38Z	16	DIL	28	IC06
PC74HCT597T	SOT109A	16	SO16	28	IC06
PC74HCT640P	SOT146	20	DIL	23;28	IC06
PC74HCT640T	SOT163A	20	SO20	23;28	IC06
PC74HCT643P	SOT146	20	DIL	23;28	IC06
PC74HCT643T	SOT163A	20	SO20	23;28	IC06
PC74HCT646P	SOT101A	24	DIL	23;28	IC06
PC74HCT646T	SOT137A	24	SO24	23;28	IC06
PC74HCT648P	SOT101A	24	DIL	23;28	IC06
PC74HCT648T	SOT137A	24	SO24	23;28	IC06
PC74HCT670P	SOT38Z	16	DIL	28	IC06
PC74HCT670T	SOT109A	16	SO16	28	IC06
PC74HCT688P	SOT146	20	DIL	23	IC06
PC74HCT688T	SOT163A	20	SO20	23	IC06
PC74HCT7030P	SOT117	28	DIL	28;91	IC06
PC74HCT7030T	SOT136A	28	SO28	28;91	IC06
PC74HCT7046AP	SOT38Z	16	DIL	28	IC06
PC74HCT7046AT	SOT109A	16	SO16	28	IC06
PC74HCT7080P	SOT146	20	DIL	23	IC06
PC74HCT7080T	SOT163A	20	SO20	23	IC06
PC74HCT73P	SOT27	14	DIL	26	IC06
PC74HCT73T	SOT108A	14	SO14	26	IC06
PC74HCT74P	SOT27	14	DIL	25	IC06
PC74HCT74T	SOT108A	14	SO14	25	IC06
PC74HCT75P	SOT38Z	16	DIL	27	IC06
PC74HCT75T	SOT109A	16	SO16	27	IC06
PC74HCT7540P	SOT146	20	DIL	23;28	IC06
PC74HCT7540T	SOT163A	20	SO20	23;28	IC06
PC74HCT7541P	SOT146	20	DIL	23;28	IC06
PC74HCT7541T	SOT163A	20	SO20	23;28	IC06
PC74HCT7597P	SOT38Z	16	DIL	28	IC06
PC74HCT7597T	SOT109A	16	SO16	28	IC06
PC74HCT85P	SOT38Z	16	DIL	23	IC06
PC74HCT85T	SOT109A	16	SO16	23	IC06
PC74HCT86P	SOT27	14	DIL	26	IC06
PC74HCT86T	SOT108A	14	SO14	26	IC06
PC74HCT9014P	SOT146	20	DIL	23;28	IC06
PC74HCT9014T	SOT163A	20	SO20	23;28	IC06
PC74HCT9015P	SOT146	20	DIL	23;28	IC06
PC74HCT9015T	SOT163A	20	SO20	23;28	IC06
PC74HCT9114P	SOT146	20	DIL	23;28	IC06
PC74HCT9114T	SOT163A	20	SO20	23;28	IC06
PC74HCT9115P	SOT146	20	DIL	23;28	IC06
PC74HCT9115T	SOT163A	20	SO20	23;28	IC06

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PC74HCT93P	SOT27	14	DIL	24	IC06
PC74HCT93T	SOT108A	14	DIL	24	IC06
PC74HCU04P	SOT27	14	DIL	26	IC06
PC74HCU04T	SOT108A	14	SO14	26	IC06
PC74HC00P	SOT27	14	DIL	26	IC06
PC74HC00T	SOT108A	14	SO14	26	IC06
PC74HC02P	SOT27	14	DIL	26	IC06
PC74HC02T	SOT108A	14	SO14	26	IC06
PC74HC03P	SOT27	14	DIL	26	IC06
PC74HC03T	SOT108A	14	SO14	26	IC06
PC74HC04P	SOT27	14	DIL	26	IC06
PC74HC04T	SOT108A	14	SO14	26	IC06
PC74HC08P	SOT27	14	DIL	26	IC06
PC74HC08T	SOT108A	14	SO14	26	IC06
PC74HC10P	SOT27	14	DIL	26	IC06
PC74HC10T	SOT108A	14	SO14	26	IC06
PC74HC107P	SOT27	14	DIL	26	IC06
PC74HC107T	SOT108A	14	SO14	26	IC06
PC74HC109P	SOT38Z	16	DIL	26	IC06
PC74HC109T	SOT109A	16	SO16	26	IC06
PC74HC11P	SOT27	14	DIL	26	IC06
PC74HC11T	SOT108A	14	SO14	26	IC06
PC74HC112P	SOT38Z	16	DIL	26	IC06
PC74HC112T	SOT109A	16	SO16	26	IC06
PC74HC123P	SOT38Z	16	DIL	27	IC06
PC74HC123T	SOT109A	16	SO16	27	IC06
PC74HC125P	SOT27	14	DIL	23	IC06
PC74HC125T	SOT108A	14	SO14	23	IC06
PC74HC126P	SOT27	14	DIL	23	IC06
PC74HC126T	SOT108A	14	SO14	23	IC06
PC74HC132P	SOT27	14	DIL	28	IC06
PC74HC132T	SOT108A	14	SO14	28	IC06
PC74HC137P	SOT38Z	16	DIL	24	IC06
PC74HC137T	SOT109A	16	SO16	24	IC06
PC74HC138P	SOT38Z	16	DIL	24	IC06
PC74HC138T	SOT109A	16	SO16	24	IC06
PC74HC139P	SOT38Z	16	DIL	24	IC06
PC74HC139T	SOT109A	16	SO16	24	IC06
PC74HC14P	SOT27	14	DIL	28	IC06
PC74HC14T	SOT108A	14	SO14	28	IC06
PC74HC147P	SOT38Z	16	DIL	25	IC06
PC74HC147T	SOT109A	16	SO16	25	IC06
PC74HC151P	SOT38Z	16	DIL	27	IC06
PC74HC151T	SOT109A	16	SO16	27	IC06
PC74HC153P	SOT38Z	16	DIL	27	IC06
PC74HC153T	SOT109A	16	SO16	27	IC06
PC74HC154P	SOT101A	24	DIL	24	IC06
PC74HC154T	SOT137A	24	SO24	24	IC06
PC74HC157P	SOT38Z	16	DIL	27	IC06
PC74HC157T	SOT109A	16	SO16	27	IC06
PC74HC158P	SOT38Z	16	DIL	27	IC06
PC74HC158T	SOT109A	16	SO16	27	IC06
PC74HC160P	SOT38Z	16	DIL	24	IC06
PC74HC160T	SOT109A	16	SO16	24	IC06
PC74HC161P	SOT38Z	16	DIL	24	IC06
PC74HC161T	SOT109A	16	SO16	24	IC06
PC74HC162P	SOT38Z	16	DIL	24	IC06

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
PC74HC162T	SOT109A	16	SO16	24	IC06
PC74HC163P	SOT38Z	16	DIL	24	IC06
PC74HC163T	SOT109A	16	SO16	24	IC06
PC74HC164P	SOT27	14	DIL	27	IC06
PC74HC164T	SOT108A	14	SO14	27	IC06
PC74HC165P	SOT38Z	16	DIL	27	IC06
PC74HC165T	SOT109A	16	SO16	27	IC06
PC74HC166P	SOT38Z	16	DIL	27	IC06
PC74HC166T	SOT109A	16	SO16	27	IC06
PC74HC173P	SOT38Z	16	DIL	25	IC06
PC74HC173T	SOT109A	16	SO16	25	IC06
PC74HC174P	SOT38Z	16	DIL	25	IC06
PC74HC174T	SOT109A	16	SO16	25	IC06
PC74HC175P	SOT38Z	16	DIL	25	IC06
PC74HC175T	SOT109A	16	SO16	25	IC06
PC74HC181P	SOT101A	24	DIL	23	IC06
PC74HC181T	SOT137A	24	SO24	23	IC06
PC74HC182P	SOT38Z	16	DIL	23	IC06
PC74HC182T	SOT109A	16	SO16	23	IC06
PC74HC190P	SOT38Z	16	DIL	24	IC06
PC74HC190T	SOT109A	16	SO16	24	IC06
PC74HC191P	SOT38Z	16	DIL	24	IC06
PC74HC191T	SOT109A	16	SO16	24	IC06
PC74HC192P	SOT38Z	16	DIL	24	IC06
PC74HC192T	SOT109A	16	SO16	24	IC06
PC74HC193P	SOT38Z	16	DIL	24	IC06
PC74HC193T	SOT109A	16	SO16	24	IC06
PC74HC194P	SOT38Z	16	DIL	28	IC06
PC74HC194T	SOT109A	16	SO16	28	IC06
PC74HC195P	SOT38Z	16	DIL	28	IC06
PC74HC195T	SOT109A	16	SO16	28	IC06
PC74HC20P	SOT27	14	DIL	26	IC06
PC74HC20T	SOT108A	14	SO14	26	IC06
PC74HC21P	SOT27	14	DIL	26	IC06
PC74HC21T	SOT108A	14	SO14	26	IC06
PC74HC221P	SOT38Z	16	DIL	27	IC06
PC74HC221T	SOT109A	16	SO16	27	IC06
PC74HC237P	SOT38Z	16	DIL	24	IC06
PC74HC237T	SOT109A	16	SO16	24	IC06
PC74HC238P	SOT38Z	16	DIL	24	IC06
PC74HC238T	SOT109A	16	SO16	24	IC06
PC74HC240P	SOT146	20	DIL	23	IC06
PC74HC240T	SOT163A	20	SO20	23	IC06
PC74HC241P	SOT146	20	DIL	23	IC06
PC74HC241T	SOT163A	20	SO20	23	IC06
PC74HC242P	SOT27	14	DIL	23;28	IC06
PC74HC242T	SOT108A	14	SO14	23;28	IC06
PC74HC243P	SOT27	14	DIL	23;28	IC06
PC74HC243T	SOT108A	14	SO14	23;28	IC06
PC74HC244P	SOT146	20	DIL	23	IC06
PC74HC244T	SOT163A	20	SO20	23	IC06
PC74HC245P	SOT146	20	DIL	23;28	IC06
PC74HC245T	SOT163A	20	SO20	23;28	IC06
PC74HC251P	SOT38Z	16	DIL	27	IC06
PC74HC251T	SOT109A	16	SO16	27	IC06
PC74HC253P	SOT38Z	16	DIL	27	IC06
PC74HC253T	SOT109A	16	SO16	27	IC06

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
PC74HC257P	SOT38Z	16	DIL	27	IC06
PC74HC257T	SOT109A	16	SO16	27	IC06
PC74HC258P	SOT38Z	16	DIL	27	IC06
PC74HC258T	SOT109A	16	SO16	27	IC06
PC74HC259P	SOT38Z	16	DIL	27	IC06
PC74HC259T	SOT109A	16	SO16	27	IC06
PC74HC27P	SOT27	14	DIL	26	IC06
PC74HC27T	SOT108A	14	SO14	26	IC06
PC74HC273P	SOT146	20	DIL	25	IC06
PC74HC273T	SOT163A	20	SO20	25	IC06
PC74HC280P	SOT27	14	DIL	23	IC06
PC74HC280T	SOT108A	14	SO14	23	IC06
PC74HC283P	SOT38Z	16	DIL	23	IC06
PC74HC283T	SOT109A	16	SO16	23	IC06
PC74HC297P	SOT38Z	16	DIL	28	IC06
PC74HC297T	SOT109A	16	SO16	28	IC06
PC74HC299P	SOT146	20	DIL	28	IC06
PC74HC299T	SOT163A	20	SO20	28	IC06
PC74HC30P	SOT27	14	DIL	26	IC06
PC74HC30T	SOT108A	14	SO14	26	IC06
PC74HC32P	SOT27	14	DIL	26	IC06
PC74HC32T	SOT108A	14	SO14	26	IC06
PC74HC354P	SOT146	20	DIL	27;28	IC06
PC74HC354T	SOT163A	20	SO20	27;28	IC06
PC74HC356P	SOT146	20	DIL	27;28	IC06
PC74HC356T	SOT163A	20	SO20	27;28	IC06
PC74HC365P	SOT38Z	16	DIL	23	IC06
PC74HC365T	SOT109A	16	SO16	23	IC06
PC74HC366P	SOT38Z	16	DIL	23	IC06
PC74HC366T	SOT109A	16	SO16	23	IC06
PC74HC367P	SOT38Z	16	DIL	23	IC06
PC74HC367T	SOT109A	16	SO16	23	IC06
PC74HC368P	SOT38Z	16	DIL	23	IC06
PC74HC368T	SOT109A	16	SO16	23	IC06
PC74HC373P	SOT146	20	DIL	25	IC06
PC74HC373T	SOT163A	20	SO20	25	IC06
PC74HC374P	SOT146	20	DIL	25	IC06
PC74HC374T	SOT163A	20	SO20	25	IC06
PC74HC377P	SOT146	20	DIL	25	IC06
PC74HC377T	SOT163A	20	SO20	25	IC06
PC74HC390P	SOT38Z	16	DIL	24	IC06
PC74HC390T	SOT109A	16	SO16	24	IC06
PC74HC393P	SOT38Z	16	DIL	24	IC06
PC74HC393T	SOT109A	16	SO16	24	IC06
PC74HC4002P	SOT27	14	DIL	26	IC06
PC74HC4002T	SOT108A	14	SO14	26	IC06
PC74HC40102P	SOT38Z	16	DIL	24	IC06
PC74HC40102T	SOT109A	16	SO16	24	IC06
PC74HC40103P	SOT38Z	16	DIL	24	IC06
PC74HC40103T	SOT109A	16	SO16	24	IC06
PC74HC40104P	SOT38Z	16	DIL	28	IC06
PC74HC40104T	SOT109A	16	SO16	28	IC06
PC74HC40105P	SOT38Z	16	DIL	28;91	IC06
PC74HC40105T	SOT109A	16	SO16	28;91	IC06
PC74HC4015P	SOT38Z	16	DIL	28	IC06
PC74HC4015T	SOT109A	16	SO16	28	IC06
PC74HC4016P	SOT27	14	DIL	28	IC06

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PC74HC4016T	SOT108A	14	SO14	28	IC06
PC74HC4017P	SOT38Z	16	DIL	24	IC06
PC74HC4017T	SOT109A	16	SO16	24	IC06
PC74HC4020P	SOT38Z	16	DIL	24	IC06
PC74HC4020T	SOT109A	16	SO16	24	IC06
PC74HC4024P	SOT27	14	DIL	24	IC06
PC74HC4024T	SOT108A	14	SO14	24	IC06
PC74HC4040P	SOT38Z	16	DIL	24	IC06
PC74HC4040T	SOT109A	16	SO16	24	IC06
PC74HC4046AP	SOT38Z	16	DIL	28;91;111	IC06
PC74HC4046AT	SOT109A	16	SO16	28;91;111	IC06
PC74HC4049P	SOT38Z	16	DIL	27	IC06
PC74HC4049T	SOT109A	16	SO16	27	IC06
PC74HC4050P	SOT38Z	16	DIL	27	IC06
PC74HC4050T	SOT109A	16	SO16	27	IC06
PC74HC4051P	SOT38Z	16	DIL	24;27	IC06
PC74HC4051T	SOT109A	16	SO16	24;27	IC06
PC74HC4052P	SOT38Z	16	DIL	24;27	IC06
PC74HC4052T	SOT109A	16	SO16	24;27	IC06
PC74HC4053P	SOT38Z	16	DIL	24;27	IC06
PC74HC4053T	SOT109A	16	SO16	24;27	IC06
PC74HC4059P	SOT101A	24	DIL	24	IC06
PC74HC4059T	SOT137A	24	SO24	24	IC06
PC74HC4060P	SOT38Z	16	DIL	24	IC06
PC74HC4060T	SOT109A	16	SO16	24	IC06
PC74HC4066P	SOT27	14	DIL	28	IC06
PC74HC4066T	SOT108A	14	SO14	28	IC06
PC74HC4067P	SOT101A	24	DIL	24;27	IC06
PC74HC4067T	SOT137A	24	SO24	24;27	IC06
PC74HC4075P	SOT27	14	DIL	26	IC06
PC74HC4075T	SOT108A	14	SO14	26	IC06
PC74HC4094P	SOT38Z	16	DIL	28	IC06
PC74HC4094T	SOT109A	16	SO16	28	IC06
PC74HC42P	SOT38Z	16	DIL	24	IC06
PC74HC42T	SOT109A	16	SO16	24	IC06
PC74HC423P	SOT38Z	16	DIL	27	IC06
PC74HC423T	SOT109A	16	SO16	27	IC06
PC74HC4316P	SOT38Z	16	DIL	28	IC06
PC74HC4316T	SOT109A	16	SO16	28	IC06
PC74HC4351P	SOT102	18	DIL	25;27	IC06
PC74HC4351T	SOT163A	20	SO20	25;27	IC06
PC74HC4352P	SOT102	18	DIL	25;27	IC06
PC74HC4352T	SOT163A	20	SO20	25;27	IC06
PC74HC4353P	SOT102	18	DIL	25;27	IC06
PC74HC4353T	SOT163A	20	SO20	25;27	IC06
PC74HC4510P	SOT38Z	16	DIL	24	IC06
PC74HC4510T	SOT109A	16	SO16	24	IC06
PC74HC4511P	SOT38Z	16	DIL	24;25	IC06
PC74HC4511T	SOT109A	16	SO16	24;25	IC06
PC74HC4514P	SOT101A	24	DIL	24;25	IC06
PC74HC4514T	SOT137A	24	SO24	24;25	IC06
PC74HC4515P	SOT101A	24	DIL	24;25	IC06
PC74HC4515T	SOT137A	24	SO24	24;25	IC06
PC74HC4516P	SOT38Z	16	DIL	24	IC06
PC74HC4516T	SOT109A	16	SO16	24	IC06
PC74HC4518P	SOT38Z	16	DIL	24	IC06
PC74HC4518T	SOT109A	16	SO16	24	IC06

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
PC74HC4520P	SOT38Z	16	DIL	24	IC06
PC74HC4520T	SOT109A	16	SO16	24	IC06
PC74HC4538P	SOT27	14	DIL	27	IC06
PC74HC4538T	SOT108A	14	SO14	27	IC06
PC74HC4543P	SOT38Z	16	DIL	24;25	IC06
PC74HC4543T	SOT109A	16	SO16	24;25	IC06
PC74HC533P	SOT146	20	DIL	25	IC06
PC74HC533T	SOT163A	20	SO20	25	IC06
PC74HC534P	SOT146	20	DIL	25	IC06
PC74HC534T	SOT163A	20	SO20	25	IC06
PC74HC540P	SOT146	20	DIL	23	IC06
PC74HC540T	SOT163A	20	SO20	23	IC06
PC74HC541P	SOT146	20	DIL	23	IC06
PC74HC541T	SOT163A	20	SO20	23	IC06
PC74HC5555P	SOT38Z	16	DIL	27	IC06
PC74HC5555T	SOT109A	16	SO16	27	IC06
PC74HC563P	SOT146	20	DIL	25	IC06
PC74HC563T	SOT163A	20	SO20	25	IC06
PC74HC564P	SOT146	20	DIL	25	IC06
PC74HC564T	SOT163A	20	SO20	25	IC06
PC74HC573P	SOT146	20	DIL	25	IC06
PC74HC573T	SOT163A	20	SO20	25	IC06
PC74HC574P	SOT146	20	DIL	25	IC06
PC74HC574T	SOT163A	20	SO20	25	IC06
PC74HC58P	SOT27	14	DIL	26	IC06
PC74HC58T	SOT108A	14	SO14	26	IC06
PC74HC583P	SOT38Z	16	DIL	23	IC06
PC74HC583T	SOT109A	16	SO16	23	IC06
PC74HC597P	SOT38Z	16	DIL	28	IC06
PC74HC597T	SOT109A	16	SO16	28	IC06
PC74HC640P	SOT146	20	DIL	23;28	IC06
PC74HC640T	SOT163A	20	SO20	23;28	IC06
PC74HC643P	SOT146	20	DIL	23;28	IC06
PC74HC643T	SOT163A	20	SO20	23;28	IC06
PC74HC646P	SOT101A	24	DIL	23;28	IC06
PC74HC646T	SOT137A	24	SO24	23;28	IC06
PC74HC648P	SOT101A	24	DIL	23;28	IC06
PC74HC648T	SOT137A	24	SO24	23;28	IC06
PC74HC670P	SOT38Z	16	DIL	28	IC06
PC74HC670T	SOT109A	16	SO16	28	IC06
PC74HC688P	SOT146	20	DIL	23	IC06
PC74HC688T	SOT163A	20	SO20	23	IC06
PC74HC7030P	SOT117	28	DIL	28;91	IC06
PC74HC7030T	SOT136A	28	SO28	28;91	IC06
PC74HC7046AP	SOT38Z	16	DIL	28	IC06
PC74HC7046AT	SOT109A	16	SO16	28	IC06
PC74HC7080P	SOT146	20	DIL	23	IC06
PC74HC7080T	SOT163A	20	SO20	23	IC06
PC74HC7266P	SOT27	14	DIL	26	IC06
PC74HC7266T	SOT108A	14	SO14	26	IC06
PC74HC73P	SOT27	14	DIL	26	IC06
PC74HC73T	SOT108A	14	SO14	26	IC06
PC74HC74P	SOT27	14	DIL	25	IC06
PC74HC74T	SOT108A	14	SO14	25	IC06
PC74HC75P	SOT38Z	16	DIL	27	IC06
PC74HC75T	SOT109A	16	SO16	27	IC06
PC74HC7540P	SOT146	20	DIL	23;28	IC06

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PC74HC7540T	SOT163A	20	SO20	23;28	IC06
PC74HC7541P	SOT146	20	DIL	23;28	IC06
PC74HC7541T	SOT163A	20	SO20	23;28	IC06
PC74HC7597P	SOT38Z	16	DIL	28	IC06
PC74HC7597T	SOT109A	16	SO16	28	IC06
PC74HC85P	SOT38Z	16	DIL	23	IC06
PC74HC85T	SOT109A	16	SO16	23	IC06
PC74HC86P	SOT27	14	DIL	26	IC06
PC74HC86T	SOT108A	14	SO14	26	IC06
PC74HC9014P	SOT146	20	DIL	23;28	IC06
PC74HC9014T	SOT163A	20	SO20	23;28	IC06
PC74HC9015P	SOT146	20	DIL	23;28	IC06
PC74HC9015T	SOT163A	20	SO20	23;28	IC06
PC74HC9114P	SOT146	20	DIL	23;28	IC06
PC74HC9114T	SOT163A	20	SO20	23;28	IC06
PC74HC9115P	SOT146	20	DIL	23;28	IC06
PC74HC9115T	SOT163A	20	SO20	23;28	IC06
PC74HC93P	SOT27	14	DIL	24	IC06
PC74HC93T	SOT108A	14	DIL	24	IC06
PGT200–003	–	–	–	132	–
PGT200–006	–	–	–	132	–
PGT200–010	–	–	–	132	–
PGT200–017	–	–	–	132	–
PGT200–024	–	–	–	132	–
PGT200–029	–	–	–	132	–
PGT200–033	–	–	–	132	–
PGT200–042	–	–	–	132	–
PGT200–056	–	–	–	132	–
PGT200–073	–	–	–	132	–
PGT200–109	–	–	–	132	–
PGT200–145	–	–	–	132	–
PGT200–180	–	–	–	132	–
PLC153–45A	A	20	PLCC	128	DS
PLC153–45FA	FA	20	CERDIP	128	DS
PLC153–45N	N	20	PLDIL	128	DS
PLC153–60A	A	20	PLCC	128	DS
PLC153–60FA	FA	20	CERDIP	128	DS
PLC153–60N	N	20	PLDIL	128	DS
PLC16V8H35A	A	20	PLCC	128	DS
PLC16V8H35FA	FA	20	CERDIP	128	DS
PLC16V8H35N	N	20	PLDIL	128	DS
PLC16V8H45A	A	20	PLCC	128	DS
PLC16V8H45FA	FA	20	CERDIP	128	DS
PLC16V8H45N	N	20	PLDIL	128	DS
PLC16V8Q35A	A	20	PLCC	128	DS
PLC16V8Q35FA	FA	20	CERDIP	128	DS
PLC16V8Q35N	N	20	PLDIL	128	DS
PLC16V8Q45A	A	20	PLCC	128	DS
PLC16V8Q45FA	FA	20	CERDIP	128	DS
PLC16V8Q45N	N	20	PLDIL	128	DS
PLC20V8H35A	A	24	PLCC	128	DS
PLC20V8H35FA	FA	24	CERDIP	128	DS
PLC20V8H35N	N	24	PLDIL	128	DS
PLC20V8H45A	A	24	PLCC	128	DS
PLC20V8H45FA	FA	24	CERDIP	128	DS
PLC20V8H45N	N	24	PLDIL	128	DS
PLC20V8Q35A	A	24	PLCC	128	DS

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PLC20V8Q35FA	FA	24	CERDIP	128	DS
PLC20V8Q35N	N	24	PLDIL	128	DS
PLC20V8Q45A	A	24	PLCC	128	DS
PLC20V8Q45FA	FA	24	CERDIP	128	DS
PLC20V8Q45N	N	24	PLDIL	128	DS
PLC473–60FA	FA	24	CERDIP	128	IC13
PLHS153A	A	20	PLCC	128	IC13
PLHS153N	N	20	PLDIL	128	IC13
PLHS16L8AA	A	20	PLCC	128	DS
PLHS16L8AN	N	20	PLDIL	128	DS
PLHS16L8BA	A	20	PLCC	128	DS
PLHS16L8BN	N	20	PLDIL	128	DS
PLHS18P8AA	A	20	PLCC	128	DS IC13
PLHS18P8AN	N	20	PLDIL	128	DS IC13
PLHS18P8BA	A	20	PLCC	128	DS
PLHS18P8BN	N	20	PLDIL	128	DS
PLHS473A	A	28	PLCC	128	IC13
PLHS473N	N	24	PLDIL	128	IC13
PLHS501	A	52	PLCC	129	DS IC13
PLHS502	A	52	PLCC	129	IC13
PLS100A	AQ	28	PLCC	128	IC13
PLS100F	FQ	28	CERDIP	128	IC13
PLS100N	NQ	28	PLDIL	128	IC13
PLS101A	AQ	28	PLCC	128	IC13
PLS101F	FQ	28	CERDIP	128	IC13
PLS101N	NQ	28	PLDIL	128	IC13
PLS105A	AQ	28	PLCC	128	IC13
PLS105AA	AQ	28	PLCC	128	IC13
PLS105AF	FQ	28	CERDIP	128	IC13
PLS105AN	NQ	28	PLDIL	128	IC13
PLS105F	FQ	28	CERDIP	128	IC13
PLS105N	NQ	28	PLDIL	128	IC13
PLS153AA	AL	20	PLCC	128	IC13
PLS153AF	FL	20	CERDIP	128	IC13
PLS153AN	NL	20	PLDIL	128	IC13
PLS153F	FL	20	CERDIP	128	IC13
PLS153N	NL	20	PLDIL	128	IC13
PLS155A	AL	20	PLCC	128	IC13
PLS155AF	AL	20	PLCC	128	IC13
PLS155F	FL	20	CERDIP	128	IC13
PLS155N	NL	20	PLDIL	128	IC13
PLS157A	AL	20	PLCC	128	IC13
PLS157F	FL	20	CERDIP	128	IC13
PLS157N	NL	20	PLDIL	128	IC13
PLS159AA	AL	20	PLCC	128	IC13
PLS159AF	FL	20	CERDIP	128	IC13
PLS159AN	NL	20	PLDIL	128	IC13
PLS163AN	NN	24	PLDIL	128	IC13
PLS167A	AQ	28	PLCC	128	IC13
PLS167AA	AQ	28	PLCC	128	IC13
PLS167AF	FN	24	CERDIP	128	IC13
PLS167AN	NN	24	PLDIL	128	IC13
PLS167F	FN	24	CERDIP	128	IC13
PLS167N	NN	24	PLDIL	128	IC13

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PLS168A	AQ	28	PLCC	128	IC13
PLS168AA	AQ	28	PLCC	128	IC13
PLS168AF	FN	24	CERDIP	128	IC13
PLS168AN	NN	24	PLDIL	128	IC13
PLS168F	FN	24	CERDIP	128	IC13
PLS168N	NN	24	PLDIL	128	IC13
PLS173A	AQ	28	PLCC	128	IC13
PLS173N	NN	24	PLDIL	128	IC13
PLS179A	AQ	28	PLCC	128	IC13
PLS179F	FN	24	CERDIP	128	IC13
PLS179N	NN	24	PLDIL	128	IC13
PLUS153	A	20	PLCC	128	IC13
PLUS173	A	28	PLCC	128	IC13
PLUS405A	A	28	PLCC	128	DS IC13
PLUS405N	N	28	PLDIL	128	DS IC13
PNA7509P	SOT101A	24	DIL	95;114	IC01 IC02
PNA7509T	SOT137A	24	SO24	95;114	–
PNA7518	SOT38D	16	DIL	95;114	IC01 IC02
SAA1027	SOT38A	16	DIL	84	IC11
SAA1029	SOT38	16	DIL	83	IC11
SAA1043	SOT117	28	DIL	113	IC02
SAA1044	SOT38	16	DIL	113	IC02
SAA1045P	SOT97	8	DIL	74;91	DS
SAA1045T	SOT96A	8	SO8	74;91	DS
SAA1057	SOT102H	18	DIL	97;105;127	IC01 IC02
SAA1060	SOT101A	24	DIL	97;115	IC01 IC02
SAA1064P	SOT101B	24	DIL	81;90;97;99; 115;118	IC01 IC02 IC12
SAA1064T	SOT137A	24	SO24	81;90;97;99; 115;118	IC12
SAA1099	SOT102M	18	DIL	73;104;127	IC01 IC02
SAA1101P	SOT117	28	DIL	113	–
SAA1235P	SOT101	24	DIL	91	–
SAA1235T	SOT137A	24	SO24	91	–
SAA1300	SOT142	9	SIL	99;105;118;127	IC01 IC02 IC12
SAA3004P	SOT146	20	DIL	104;124	IC01 IC02
SAA3004T	SOT163A	20	SO20	104;124	IC01 IC02
SAA3006P	SOT117	28	DIL	104;124	IC01 IC02
SAA3007P	SOT146	20	DIL	104	DS
SAA3007T	SOT163A	20	SO20	104	DS
SAA3008	–	20	DIL	104;124	–
SAA3009P	SOT146	20	DIL	104	DS
SAA3009T	SOT163A	20	SO20	104	DS
SAA3010P	SOT117	28	DIL	104	–

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SAA3010T	SOT136A	28	SO28	104	–
SAA3027P	SOT117	28	DIL	104;124	–
SAA3028	SOT38Z	16	DIL	99;104;118;124	IC01 IC02 IC12
SAA3049P	SOT146	20	DIL	104	DS
SAA3049T	SOT163A	20	SO20	104	DS
SAA4700P	SOT146	20	DIL	123	DS
SAA5030	SOT101A	24	DIL	126	–
SAA5045	SOT117	28	DIL	126	–
SAA5230	SOT117	28	DIL	126	–
SAA5231	SOT117	28	DIL	126	IC02
SAA5235	SOT117	28	DIL	123;126	IC02
SAA5236	SOT146	20	DIL	123	DS
SAA5243E	SOT129	40	DIL	118;126	DS
SAA5243H	SOT129	40	DIL	118;126	DS
SAA5243K	SOT129	40	DIL	118;126	DS
SAA5243L	SOT129	40	DIL	118;126	DS
SAA5245A	SOT129	40	DIL	118;126	DS
SAA5246E	–	48	DIL	118;126	–
SAA5250P	SOT129	40	DIL	126	IC02
SAA5250T	SOT158A	40	VSO40	126	IC02
SAA5350	SOT129	40	DIL	73;126	IC02
SAA5351	SOT129	40	DIL	126	DS
SAA5355	SOT129	40	DIL	127	IC02
SAA5361	SOT129	40	DIL	127	DS
SAA7210	SOT129	40	DIL	96	IC01
SAA7220	SOT101A	24	DIL	96	IC01
SAA7272WP	SOT188	68	PLCC	124	–
SAA7273P	SOT102	18	DIL	124	–
SAA7274P	SOT101	24	DIL	96	–
SAA7274T	SOT137A	24	SO24	96	–
SAA7310GP	SOT205A	44	QFP	96	IC01
SAA7320GP	SOT205A	44	QFP	95;96	DS
SAA7340GP	SOT219	80	QFP	96	–
SAA7500WP	SOT188	68	PLCC	105	–
SAA7579T	SOT162A	16	SO16L	103	–
SAA7610P	SOT117	28	DIL	96	–
SAA7611P	SOT117	28	DIL	96	–
SAA7630P	SOT38D	16	DIL	96	–
SAA7630T	SOT162A	16	SO16L	96	–
SAA9041AP	SOT129	40	DIL	118;127	DS
SAA9050	SOT129	40	DIL	114;118	IC02 IC12
SAA9051	SOT188	68	PLCC	113;114;118	–
SAA9055	SOT117	28	DIL	113;114;118	DS
SAA9057	SOT146	20	DIL	114	IC02
SAA9058	SOT146	20	DIL	114	IC02
SAA9060	SOT117	28	DIL	114	DS
SAA9062	SOT129	40	DIL	114;118;126	–
SAA9063	SOT129	40	DIL	115;118;126	–
SAA9064	SOT129	40	DIL	115;118;126	–
SAA9068WP	SOT188	68	PLCC	115;118;127	IC12
SAA9069T	SOT163A	20	SO20	115;127	DS
SAA9079P	SOT101A	24	DIL	114;115	DS
SAA9079T	SOT137A	24	SO24	114;115	DS
SAB3035	SOT117	28	DIL	118;127	IC02

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SAB3035	SOT117	28	DIL	118;127	IC12
SAB3036	SOT102H	18	DIL	118;127	IC02 IC12
SAB3037	SOT101A	24	DIL	118;127	IC02 IC12
SAB6456	SOT97	8	DIL	105;127	IC01 IC02
SAB6456T	SOT96A	8	SO8	105;127	IC01 IC02
SAB8726	SOT97	8	DIL	127	DS
SAD1009P	SOT101A	24	DIL	114;123	IC02
SAD1009T	SOT137A	24	SO24	114;123	IC02
SAD1019P	SOT101B	24	DIL	113	DS
SAD1019T	SOT137A	24	SO24	113	DS
SAF1032P	SOT102H	18	DIL	104;124	IC01 IC02
SAF1039P	SOT38Z	16	DIL	104;124	IC01 IC02
SAF1135	SOT27	14	DIL	118;123	IC02 IC12
SA1458D	DE	8	SO8	77	IC11
SA1458N	NE	8	PLDIL	77	IC11
SA4558FE	FE	8	CERDIP	77	IC11
SA4558N	N	8	PLDIL	77	IC11
SA5105AD	D	8	SO8	79	IC11
SA5105AN	N	8	PLDIL	79	IC11
SA5105D	D	8	SO8	79	IC11
SA5105N	N	8	PLDIL	79	IC11
SA5204D	DE	8	SO8	77;91	IC11 IC19
SA5204N	NE	8	PLDIL	77;91	IC11 IC19
SA5205D	DE	8	SO8	77;91	IC11 IC19
SA5205FE	FE	8	CERDIP	77;91	IC11 IC19
SA5205N	NE	8	PLDIL	77;91	IC11 IC19
SA5212D	D	8	SO8	77;91	IC11 IC19
SA5212FE	FE	8	CERDIP	77;91	IC11 IC19
SA5212N	N	8	PLDIL	77;91	IC11 IC19
SA5230D	DE	8	SO8	77;106	IC11 IC03
SA5230FE	FE	8	CERDIP	77;106	–
SA5230N	NE	8	PLDIL	77;106	IC11 IC03
SA532D	DE	8	SO8	77	IC11
SA532FE	FE	8	CERDIP	77	IC11
SA532N	NE	8	PLDIL	77	IC11
SA534D	DH	14	SO14	77	IC11
SA534F	F	14	CERDIP	77	IC11
SA534N	NH	14	PLDIL	77	IC11
SA5512D	DE	8	SO8	77	–
SA5521D	DJ	16	SO16	85	IC11

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SA5521N	NK	18	PLDIL	85	IC11
SA5534AN	N	8	PLDIL	77	IC11
SA5534N	N	8	PLDIL	77	IC11
SA555D	DE	8	SO8	88	–
SA555N	NE	8	PLDIL	88	–
SA556–1F	F	14	CERDIP	88	IC11
SA556–1N	N	14	PLDIL	88	IC11
SA556N	N	14	PLDIL	88	IC11
SA5570D	DN	24	SO24	84	–
SA5570F	F	24	CERDIP	84	IC11
SA5570N	NN	24	PLDIL	84	IC11
SA558F	F	16	CERDIP	88	IC11
SA558N	N	16	PLDIL	88	IC11
SA571D	D	16	SO16L	93;110	–
SA571F	FJ	16	CERDIP	93;110	IC11 IC17
SA571N	NJ	16	PLDIL	93;110	IC11 IC17
SA572D	DJ	16	SO16L	93;110	IC11
SA572F	F	16	CERDIP	93;110	IC11
SA572N	NJ	16	PLDIL	93;110	IC11
SA575D	D	20	SO20	93;110	–
SA575N	N	20	PLDIL	93;110	–
SA594F	F	18	CERDIP	81;90	IC11
SA594N	NK	18	PLDIL	81;90	IC11
SA602D	DE	8	SO8	91;93;110	IC11 IC17 IC19
SA602FE	FE	8	CERDIP	91;93;110	IC11 IC17 IC19
SA602N	NE	8	PLDIL	91;93;110	IC11 IC17 IC19
SA604D	DJ	16	SO16	91;93;110	IC11 IC17 IC19
SA604F	FJ	16	CERDIP	91;93;110	IC11 IC17 IC19
SA604N	NJ	16	PLDIL	91;93;110	IC11 IC17 IC19
SA605D	D	20	SO20	93;103;110	IC11 IC17
SA605F	F	20	CERDIP	93;103;110	IC11 IC17
SA605N	N	20	PLDIL	93;103;110	IC11 IC17
SA723CN	N	14	PLDIL	86	IC11
SA741CN	N	8	PLDIL	77	IC11
SA747CN	N	14	PLDIL	77	IC11
SCB2675BC5N40	NW	40	PLDIL	74	IC18
SCB2675CC5N40	NW	40	PLDIL	74	IC18
SCB2675TC4N40	NW	40	PLDIL	74	IC18
SCB2677AC5A44	AX	44	PLCC	74	IC18
SCB2677AC5N40	NW	40	PLDIL	74	IC18

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SCB2677BC5N40	NW	40	PLDIL	74	IC18
SCB68154CAA44	AX	44	PLCC	74	IC18
SCB68154C2I40	IW	40	CERDIL	74	IC18
SCB68154C2N40	NW	40	PLDIL	74	IC18
SCB68155CAA44	AX	44	PLCC	74	IC18
SCB68155CAI40	IW	40	CERDIL	74	IC18
SCB68155CAN40	NW	40	PLDIL	74	IC18
SCB68171C3N16	NJ	16	PLDIL	74	DS
SCB68172C2A44	AX	44	PLCC	74	IC18
SCB68172C2F28	FQ	28	CERDIP	74	IC18
SCB68172C2N28	NQ	28	PLDIL	74	IC18
SCB68175C2F24	FN	24	CERDIP	74	–
SCB68175C2I24	IN	24	CERDIL	74	DS
SCB68175C2N24	NN	24	PLDIL	74	DS
SCB68430CAA52	AA	52	PLCC	74	IC18
SCB68430CAI48	IY	48	CERDIL	74	IC18
SCB68430CAN48	NY	48	PLDIL	74	IC18
SCB68430CCA52	AA	52	PLCC	74	IC18
SCB68430CCI48	IY	48	CERDIL	74	IC18
SCB68430CCN48	NY	48	PLDIL	74	IC18
SCC2691AA1A28	A	28	PLCC	74;91	IC19
SCC2691AA1N24	N	24	PLDIL	74;91	IC19
SCC2691AC1A28	AQ	28	PLCC	74;91	IC18 IC19
SCC2691AC1N24	NN	24	PLDIL	74;91	IC18 IC19
SCC2691C1A28	AQ	28	PLCC	74;91	IC18
SCC2691C1N24	NN	24	PLDIL	74;91	IC18
SCC2692AC1A44	A	44	PLCC	74;91	IC18 IC19
SCC2692AC1I28	I	28	CERDIL	74;91	IC18
SCC2692AC1I40	I	40	CERDIL	74;91	IC18 IC19
SCC2692AC1N24	N	24	PLDIL	74;91	IC18
SCC2692AC1N28	N	28	PLDIL	74;91	IC18 IC19
SCC2692AC1N40	N	40	PLDIL	74;91	IC18 IC19
SCC2698AC1A84	AC	84	PLCC	74;91	IC18 IC19
SCC2698AC1N64	NS	64	PLDIL	74;91	IC18 IC19
SCC63484CAA68	A	68	PLCC	74	DS
SCC63484CAN64	N	64	PLDIL	74	DS
SCC63484C4A64	AS	64	PLCC	74	–
SCC63484C4I64	IS	64	CERDIL	74	–
SCC63484C4N64	NS	64	PLDIL	74	–
SCC63484C6I64	IS	64	CERDIL	74	–
SCC63484C8A68	A	68	PLCC	74	DS
SCC63484C8I64	IS	64	CERDIL	74	–
SCC63484C8N64	NS	64	PLDIL	74	DS
SCC66470B	H	124	QFP	74;93	DS
SCC68070AAA84	SOT189	84	PLCC	74;108;112	DS
SCC68070AAQ120	SOT220	120	QFP	74;108;112	DS
SCC68070ABA84	SOT189	84	PLCC	74;108;112	DS
SCC68070ABQ120	SOT220	120	QFP	74;108;112	DS
SCC68070ACA84	SOT189	84	PLCC	74;108;112	DS

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
SCC68070ACQ120	SOT220	120	QFP	74;108;112	DS
SCC68070CAA84	SOT189	84	PLCC	74;108;112	DS
SCC68070CAQ120	SOT220	120	QFP	74;108;112	DS
SCC68070CBA84	SOT189	84	PLCC	74;108;112	DS
SCC68070CBQ120	SOT220	120	QFP	74;108;112	DS
SCC68070CCA84	SOT189	84	PLCC	74;108;112	DS
SCC68070CCQ120	SOT220	120	QFP	74;108;112	DS
SCC68173P	SOT117	28	DIL	74	IC18
SCC68173T	SOT136A	28	SO28	74	IC18
SCC68692C1A44	A	44	PLCC	74;91	IC18
					IC19
SCC68692C1N40	N	40	PLDIL	74;91	IC18
					IC19
SCN2641CC1A28	AQ	28	PLCC	74;91	IC18
					IC19
SCN2641CC1N24	NN	24	PLDIL	74;91	IC18
					IC19
SCN2651CC1N28	NQ	28	PLDIL	74	IC18
SCN2652AC1A44	AX	44	PLCC	74;91	IC18
SCN2652AC1N40	NW	40	PLDIL	74;91	IC18
SCN2652AC2A44	AX	44	PLCC	74;91	IC18
SCN2652AC2N40	NW	40	PLDIL	74;91	IC18
SCN26562C4A52	A	52	PLCC	75	IC19
SCN26562C4I40	I	40	CERDIL	75	IC19
SCN26562C4I48	I	48	CERDIL	75	IC19
SCN26562C4N40	N	40	PLDIL	75	IC19
SCN26562C4N48	N	48	PLDIL	75	IC19
SCN2661AC1A28	AQ	28	PLCC	74;92	IC18
					IC19
SCN2661AC1N24	NN	24	PLDIL	74;92	IC18
SCN2661AC1N28	NQ	28	PLDIL	74;92	IC18
					IC19
SCN2661BC1A28	AQ	28	PLCC	74;92	IC18
					IC19
SCN2661BC1N24	NN	24	PLDIL	74;92	IC18
SCN2661BC1N28	NQ	28	PLDIL	74;92	IC18
					IC19
SCN2661CC1A28	A	28	PLCC	74;92	IC19
SCN2661CC1N24	NN	24	PLDIL	74;92	IC18
SCN2661CC1N28	NQ	28	PLDIL	74;92	IC18
					IC19
SCN2672AC4N40	NW	40	PLDIL	74	IC18
SCN2672BC4A44	AX	44	PLCC	74	IC18
SCN2672BC4I40	IW	40	CERDIL	74	IC18
SCN2672BC4N40	NW	40	PLDIL	74	IC18
SCN2672TC5A44	A	44	PLCC	74	DS
SCN2672TC5I40	I	40	CERDIL	74	DS
SCN2672TC5N40	N	40	PLDIL	74	DS
SCN2674BC4I40	IW	40	CERDIL	74	DS
SCN2674BC4N40	NW	40	PLDIL	74	DS
SCN2674TC5A44	A	44	PLCC	74	DS
SCN2674TC5I40	I	40	CERDIL	74	DS
SCN2674TC5N40	N	40	PLDIL	74	DS
SCN2681AA1A44	A	44	PLCC	74;92	IC19
					DS
SCN2681AA1I40	I	40	CERDIL	74;92	IC19
					DS

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
SCN2681AA1N40	N	40	PLDIL	74;92	IC19 DS
SCN2681AC1A44	AX	44	PLCC	74;92	IC18 IC19 DS
SCN2681AC1I28	IQ	28	CERDIL	74;92	IC18 IC19 DS
SCN2681AC1I40	IW	40	CERDIL	74;92	IC18 IC19 DS
SCN2681AC1N24	NN	24	PLDIL	74;92	IC18 IC19 DS
SCN2681AC1N28	NQ	28	PLDIL	74;92	IC18 IC19 DS
SCN2681AC1N40	NW	40	PLDIL	74;92	IC18 IC19 DS
SCN68000CAA68	AB	68	PLCC	74	IC18
SCN68000CAI64	IS	64	CERDIL	74	IC18
SCN68000C6I64	IS	64	CERDIL	74	IC18
SCN68000C6N64	NS	64	PLDIL	74	IC18
SCN68000C8A68	AB	68	PLCC	74	IC18
SCN68000C8N64	NS	64	PLDIL	74	IC18
SCN68562C4A52	AA	52	PLCC	75;92	IC18 IC19
SCN68562C4I48	IY	48	CERDIL	75;92	IC18 IC19
SCN68562C4N48	NY	48	PLDIL	75;92	IC18 IC19
SCN68681A1A44	A	44	PLCC	75;92	IC19 DS
SCN68681A1I40	I	40	CERDIL	75;92	IC19 DS
SCN68681A1N40	N	40	PLDIL	75;92	IC19 DS
SCN68681C1A44	AX	44	PLCC	75;92	IC18 IC19 DS
SCN68681C1I40	IW	40	CERDIL	75;92	IC18 IC19 DS
SCN68681C1N40	NW	40	PLDIL	75;92	IC18 IC19 DS
SC80C451ACA68	A	68	PLCC	69	DS
SC80C451ACN64	N	64	PLDIL	69	DS
SC80C451AGA68	A	68	PLCC	69	DS
SC80C451AGN64	N	64	PLDIL	69	DS
SC80C451CBA68	A	68	PLCC	69	DS
SC80C451CBN64	N	64	PLDIL	69	DS
SC80C451CCA68	A	68	PLCC	69	DS
SC80C451CCN64	N	64	PLDIL	69	DS
SC80C451CGA68	A	68	PLCC	69	DS
SC80C451CGN64	N	64	PLDIL	69	DS

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
SC83C451ACA68	A	68	PLCC	70	DS
SC83C451ACN64	N	64	PLDIL	70	DS
SC83C451AGA68	A	68	PLCC	70	DS
SC83C451AGN64	N	64	PLDIL	70	DS
SC83C451CBA68	A	68	PLCC	70	DS
SC83C451CBN64	N	64	PLDIL	70	DS
SC83C451CCA68	A	68	PLCC	70	DS
SC83C451CCN64	N	64	PLDIL	70	DS
SC83C451CGA68	A	68	PLCC	70	DS
SC83C451CGN64	N	64	PLDIL	70	DS
SC83C751ACA28	A	28	PLCC	70	DS
SC83C751ACN24	N	24	PLDIL	70	DS
SC83C751AGA28	A	28	PLCC	70	DS
SC83C751AGN24	N	24	PLDIL	70	DS
SC83C751CBA28	A	28	PLCC	70	DS
SC83C751CBN24	N	24	PLDIL	70	DS
SC83C751CCA28	A	28	PLCC	70	DS
SC83C751CCN24	N	24	PLDIL	70	DS
SC83C751CGA28	A	28	PLCC	70	DS
SC83C751CGN24	N	24	PLDIL	70	DS
SC87C451ACA68	A	68	PLCC	70	DS
SC87C451ACN64	N	64	PLDIL	70	DS
SC87C451AGA68	A	68	PLCC	70	DS
SC87C451AGN64	N	64	PLDIL	70	DS
SC87C451CBA68	A	68	PLCC	70	DS
SC87C451CBI64	I	64	CERDIL	70	DS
SC87C451CBL68	L	68	LCCC	70	DS
SC87C451CBN64	N	64	PLDIL	70	DS
SC87C451CCA68	A	68	PLCC	70	DS
SC87C451CCI64	I	64	CERDIL	70	DS
SC87C451CCL68	L	68	LCCC	70	DS
SC87C451CCN64	N	64	PLDIL	70	DS
SC87C451CGA68	A	68	PLCC	70	DS
SC87C451CGI64	I	64	CERDIL	70	DS
SC87C451CGL68	L	68	LCCC	70	DS
SC87C451CGN64	N	64	PLDIL	70	DS
SC87C51ACA44	A	44	PLCC	70	DS
SC87C51ACN40	N	40	PLDIL	70	DS
SC87C51AGA44	A	44	PLCC	70	DS
SC87C51AGN40	N	40	PLDIL	70	DS
SC87C51CBF40	F	40	CERDIP	70	DS
SC87C51CBL44	L	44	LCCC	70	DS
SC87C51CBN40	N	40	PLDIL	70	DS
SC87C51CCA44	A	44	PLCC	70	DS
SC87C51CCF40	F	40	CERDIP	70	DS
SC87C51CCL44	L	44	LCCC	70	DS
SC87C51CCN40	N	40	PLDIL	70	DS
SC87C51CGA44	A	44	PLCC	70	DS
SC87C51CGF40	F	40	CERDIP	70	DS
SC87C51CGL44	L	44	LCCC	70	DS
SC87C51CGN40	N	40	PLDIL	70	DS
SC87C751–1A28	A	28	PLCC	70	DS
SC87C751–1F24	F	24	CERDIP	70	DS
SC87C751–1N24	N	24	PLDIL	70	DS
SC87C751–2A28	A	28	PLCC	70	DS
SC87C751–2N24	N	24	PLDIL	70	DS
SC87C751–3A28	A	28	PLCC	70	DS

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
SC87C751–3F24	F	24	CERDIP	70	DS
SC87C751–3N24	N	24	PLDIL	70	DS
SC87C751–4A28	A	28	PLCC	70	DS
SC87C751–4F24	F	24	CERDIP	70	DS
SC87C751–4N24	N	24	PLDIL	70	DS
SC87C751–5A28	A	28	PLCC	70	DS
SC87C751–5N24	N	24	PLDIL	70	DS
SE4558FE	FE	8	CERDIP	78	IC11
SE5018F	FM	22	CERDIP	73;75;80	IC11
SE5018N	N	22	PLDIL	73;75;80	IC11
SE5019F	F	22	CERDIP	80	IC11
SE5030F	F	24	CERDIP	80	IC11
SE5060F	F	14	CERDIP	87	IC11
SE5105AFE	FE	8	CERDIP	79	IC11
SE5105FE	FE	8	CERDIP	79	IC11
SE5118F	F	22	CERDIP	80	IC11
SE5119F	FM	22	CERDIP	73;75;80	IC11
SE5205FE	FE	8	CERDIP	78;92	IC11 IC19
SE5205N	N	8	PLDIL	78;92	IC19
SE521F	FH	14	CERDIP	79	IC11
SE5212FE	FE	8	CERDIP	76;92	IC11 IC19
SE5212N	N	8	PLDIL	76;92	IC11 IC19
SE522F	F	14	CERDIP	79	IC11
SE527F	FH	14	CERDIP	79	IC11
SE527H	HF	10	HEADER	79	IC11
SE529F	FH	14	CERDIP	79	IC11
SE529H	HF	10	HEADER	79	IC11
SE530FE	FE	8	CERDIP	77	IC11
SE530N	NE	8	PLDIL	77	IC11
SE531FE	FE	8	CERDIP	77	IC11
SE531H	HE	8	HEADER	77	IC11
SE531N	N	8	PLDIL	77	IC11
SE532FE	FE	8	CERDIP	77	IC11
SE532N	NE	8	PLDIL	77	IC11
SE538FE	FE	8	CERDIP	77	IC11
SE538H	H	8	HEADER	77	IC11
SE538N	NE	8	PLDIL	77	IC11
SE5410F	F	16	CERDIP	80;95	IC11
SE5512FE	FE	8	CERDIP	78	IC11
SE5512N	NE	8	PLDIL	78	IC11
SE5514F	FH	14	CERDIP	78	IC11
SE5514N	NH	14	PLDIL	78	IC11
SE5521F	FK	18	CERDIP	85	IC11
SE5532AFE	FE	8	CERDIP	78	IC11
SE5532FE	FE	8	CERDIP	78	IC11
SE5534AFE	FE	8	CERDIP	78	IC11
SE5534AN	NE	8	PLDIL	78	IC11
SE5534FE	FE	8	CERDIP	78	IC11
SE5534N	NE	8	PLDIL	78	IC11
SE5535F	F	14	CERDIP	78	IC11
SE5535N	NE	8	PLDIL	78	IC11
SE5537FE	FE	8	CERDIP	87	–
SE5537N	N	8	PLDIL	87	IC11
SE5539F	FH	14	CERDIP	78;92;113	IC11

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
SE5539F	FH	14	CERDIP	78;92;113	IC19
SE5539N	NH	14	PLDIL	78;92;113	IC11 IC19
SE555CF	F	8	CERDIP	88	IC11
SE555CFE	FE	8	CERDIP	88	IC11
SE555CN	NE	8	PLDIL	88	IC11
SE555F	FH	14	CERDIP	88	IC11
SE555FE	FE	8	CERDIP	88	IC11
SE555N	NE	8	PLDIL	88	IC11
SE556–1CF	F	14	CERDIP	88	IC11
SE556–1CN	N	14	PLDIL	88	IC11
SE556–1F	F	14	CERDIP	88	IC11
SE556–1N	N	14	PLDIL	88	IC11
SE556CN	NH	14	PLDIL	88	IC11
SE556F	FH	14	CERDIP	88	IC11
SE556N	NH	14	PLDIL	88	IC11
SE5560F	FJ	16	CERDIP	86	IC11
SE5560N	NJ	16	PLDIL	86	IC11
SE5561FE	FE	8	CERDIP	86	IC11
SE5561N	NE	8	PLDIL	86	IC11
SE5562F	FL	20	CERDIP	86	IC11
SE5562N	NL	20	PLDIL	86	–
SE5570F	FN	24	CERDIP	84	IC11
SE5570N	NN	24	PLDIL	84	IC11
SE558F	F	16	CERDIP	88	IC11
SE558N	NJ	16	PLDIL	88	IC11
SE564F	FJ	16	CERDIP	92;93	–
SE564I	IJ	16	CERDIL	92;93	–
SE564N	N	16	PLDIL	92;93	IC11 IC19
SE565F	FH	14	CERDIP	93	IC11
SE565N	N	14	PLDIL	93	IC11
SE566F	F	14	CERDIP	93	IC11
SE566N	NE	8	PLDIL	93	IC11
SE567F	FH	14	CERDIP	93;110	IC11 IC03
SE567FE	FE	8	CERDIP	93;110	IC11
SE567N	NE	8	PLDIL	93;110	IC11 IC03
SE592F14	FH	14	CERDIP	77;92;113	IC11 IC19
SE592F8	FE	8	CERDIP	77;92;113	IC11 IC19
SE592H	HF	10	HEADER	77;92;113	IC11 IC19
SE592N14	NH	14	PLDIL	77;92;113	–
SG1524CF	FJ	16	CERDIP	86	IC11
SG1524CN	NJ	16	PLDIL	86	IC11
SG1526F	FK	18	CERDIP	86	–
SG1526N	NK	18	PLDIL	86	–
SG2524CD	D	16	SO16	86	IC11
SG2524CF	F	16	CERDIP	86	IC11
SG2524CN	NJ	16	PLDIL	86	IC11
SG2526D	DK	18	SO20	86	–
SG2526F	FK	18	CERDIP	86	–
SG2526N	NK	18	PLDIL	86	–
SG3524CD	DJ	16	SO16	86	IC11

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
SG3524CF	F	16	CERDIP	86	IC11
SG3524CN	NJ	16	PLDIL	86	IC11
SG3524D	DJ	16	SO16	86	–
SG3524F	FJ	16	CERDIP	86	–
SG3524N	NJ	16	PLDIL	86	–
SG3526D	DK	20	SO20	86	IC11
SG3526F	FK	18	CERDIP	86	IC11
SG3526N	NK	18	PLDIL	86	IC11
S8X360I	I	40	CERDIP	73	IC14
TAA263	SOT18/17	4	CYL	94	IC01
TAA320	SOT18/13	3	CYL	94	IC01
TAA320A	SOT18/13	3	CYL	94;100	IC01
TBA120U	SOT27	14	DIL	124	IC02
TBA920S	SOT38	16	DIL	125	IC02
TCA520B	SOT97	8	DIL	78	IC11
TCA520D	SOT96A	8	SO8	78	IC11
TDA1001B	SOT38	16	DIL	100	IC01
TDA1001BT	SOT109A	16	SO16	100	IC01
TDA1002A	SOT38	16	DIL	94	IC01
TDA1010A	SOT110B	9	SIL	94	IC01
TDA1011	SOT110B	9	SIL	94	IC01
TDA1013B	SOT110B	9	SIL	94;124	–
TDA1015	SOT110B	9	SIL	94;124	IC01 IC02
TDA1015T	SOT96A	8	SO8	94;124	IC01 IC02
TDA1016	SOT38	16	DIL	94	IC01
TDA1020	SOT110B	9	SIL	94	IC01
TDA1023	SOT38	16	DIL	86	IC11
TDA1023T	SOT109A	16	SO16	86	–
TDA1029	SOT38	16	DIL	95;124	IC01 IC02
TDA1059B	SOT32	3	SIL	103	IC01
TDA1060	SOT38	16	DIL	86	IC11
TDA1060A	SOT38	16	DIL	86	IC11
TDA1060B	SOT74	16	DIL	86	IC11
TDA1060T	SOT109A	16	SO16	86	IC11
TDA1072A	SOT38	16	DIL	103	IC01
TDA1072AT	SOT109A	16	SO16	103	DS
TDA1074A	SOT102H	18	DIL	95	IC01
TDA1082	SOT38	16	DIL	115	IC02
TDA1432P	SOT38Z	16	DIL	80	–
TDA1432T	SOT109A	16	SO16	80	–
TDA1510A	SOT141C	13	SBD	94	IC01
TDA1512A	SOT131CE	9	SIL	94;124	–
TDA1512AQ	SOT157	9	SBD	94;124	–
TDA1514	SOT131A	9	SIL	94;96;124	IC01
TDA1514A	SOT131A	13	SIL	94;96;124	DS
TDA1515B	SOT141CE	13	SBD	94	–
TDA1516Q	SOT141CEA	13	SBD	94	IC01
TDA1517	SOT110B	9	SIL	94	DS
TDA1518Q	SOT141CEA	13	SBD	94	IC01
TDA1519	SOT110B	9	SIL	94	DS
TDA1519A	SOT131B	9	SIL	94	–
TDA1519B	SOT110B	9	SIL	94	–
TDA1520B	SOT131CE	9	SIL	94;125	IC02
TDA1520BQ	SOT157CE	9	SBD	94;125	–

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TDA1521	SOT131	9	SIL	94;125	IC01 IC02
TDA1521A	SOT110B	9	SIL	94;125	IC01 IC02
TDA1521Q	SOT157	9	SBD	94;125	IC01 IC02
TDA1522	SOT142	9	SIL	94	IC01
TDA1524A	SOT102H	18	DIL	95;125	IC01 IC02
TDA1525	SOT102H	18	DIL	95;125	DS
TDA1534	SOT117	28	DIL	80;95;114	IC01 IC02
TDA1535	SOT38WE2	16	DIL	87;94	IC01
TDA1541A	SOT117	28	DIL	80;94;96;114	IC02
TDA1542	SOT117	28	DIL	96	DS
TDA1543	SOT97	8	DIL	80;95;96;114	DS
TDA1543A	SOT97	8	DIL	80;95;96;114	–
TDA1572	SOT102H	18	DIL	103	DS
TDA1572T	SOT163A	20	SO20	103	DS
TDA1574	SOT102H	18	DIL	103;105	IC01
TDA1574T	SOT163A	20	SO20	103;105	DS
TDA1576	SOT102H	18	DIL	103	IC01 IC17
TDA1578A	SOT102H	18	DIL	105	IC01
TDA1579	SOT102H	18	DIL	95	IC01
TDA1579T	SOT163A	20	SO20	95	IC01
TDA1589	SOT102H	18	DIL	95	IC01
TDA1596	SOT102H	18	DIL	103	DS
TDA1596T	SOT163A	20	SO20	103	DS
TDA1598	SOT102H	18	DIL	105	IC01
TDA1600	SOT101B	24	DIL	95	IC01
TDA1721P	SOT38Z	16	DIL	73	–
TDA1721T	SOT109A	16	SO16	73	–
TDA2515	SOT129	40	DIL	123	–
TDA2543	SOT102H	18	DIL	125	IC02
TDA2545A	SOT38	16	DIL	125	IC02
TDA2546A	SOT102H	18	DIL	125	IC02
TDA2549	SOT101A	24	DIL	127	IC02
TDA2555	SOT102H	18	DIL	125	IC02
TDA2556	SOT101B	24	DIL	125	IC02
TDA2557	SOT102H	18	DIL	125	IC02
TDA2577A	SOT102H	18	DIL	126	IC02
TDA2578A	SOT102H	18	DIL	126	IC02
TDA2579A	SOT102H	18	DIL	126	–
TDA2582	SOT38	16	DIL	123	IC02
TDA2582Q	SOT58	16	QIL	123	IC02
TDA2593	SOT38	16	DIL	125	IC02
TDA2594	SOT102H	18	DIL	125	IC02
TDA2595	SOT102H	18	DIL	125	IC02
TDA2611A	SOT110B	9	SIL	94;125	IC01 IC02
TDA2613	SOT110B	9	SIL	94;125	IC01 IC02
TDA2653A	SOT141B	13	SBD	125	IC02
TDA2655B	SOT150	12	DIL	125	IC02
TDA2658	SOT141B	13	SBD	125	IC02
TDA2795	SOT102H	18	DIL	125	IC02

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TDA3047P	SOT38	16	DIL	104;124	IC01 IC02
TDA3047T	SOT162A	16	SO16L	104;124	IC01 IC02
TDA3048P	SOT38	16	DIL	104;124	IC01 IC02
TDA3048T	SOT162A	16	SO16L	104;124	IC01 IC02
TDA3501	SOT117	28	DIL	113	IC02
TDA3505	SOT117	28	DIL	113	IC02
TDA3506	SOT117	28	DIL	113	IC02
TDA3507	SOT117	28	DIL	113	IC02
TDA3510	SOT101A	24	DIL	113	IC02
TDA3561A	SOT117	28	DIL	113	IC02
TDA3564	SOT101A	24	DIL	113	IC02
TDA3565	SOT102H	18	DIL	113	IC02
TDA3566	SOT117	28	DIL	113	IC02
TDA3567	SOT102H	18	DIL	113	IC02
TDA3569	SOT146EE7	20	DIL	113	IC02
TDA3586	SOT117	28	DIL	126	IC02
TDA3590A	SOT101B	24	DIL	113	IC02
TDA3592A	SOT101B	24	DIL	113	IC02
TDA3645	–	–	–	86	–
TDA3653B	SOT110B	9	SIL	125	–
TDA3653CQ	SOT131	9	SIL	125	–
TDA3654	SOT131	9	SIL	125	IC02
TDA3654Q	SOT157	9	SBD	125	IC02
TDA3724	SOT102K	18	DIL	123	IC02
TDA3725	SOT102K	18	DIL	123	IC02
TDA3730	SOT117	28	DIL	123	IC02
TDA3740	SOT117	28	DIL	123	IC02
TDA3755	SOT102H	18	DIL	123	IC02
TDA3760	SOT117	28	DIL	123	IC02
TDA3765	SOT117	28	DIL	123	IC02
TDA3766	SOT117	28	DIL	123	–
TDA3771	SOT102H	18	DIL	123	IC02
TDA3780	SOT102H	18	DIL	123	IC02
TDA3791	SOT38	16	DIL	123	IC02
TDA3800G	SOT117	28	DIL	125	IC02
TDA3800GS	SOT117	28	DIL	125	IC02
TDA3803A	SOT117	28	DIL	125	IC02
TDA3806	SOT102H	18	DIL	125	IC02
TDA3808	SOT38	16	DIL	125	IC02
TDA3810	SOT102H	18	DIL	95;125	IC01 IC02
TDA3825	SOT27	14	DIL	125	DS
TDA3826	SOT27	14	DIL	125	DS
TDA4500	SOT117	28	DIL	124	IC02
TDA4501	SOT117	28	DIL	124	IC02
TDA4502A	SOT117	28	DIL	124	DS
TDA4503	SOT117	28	DIL	124	IC02
TDA4504	SOT201	32	DIL	124	–
TDA4505E	SOT117	28	DIL	124	–
TDA4505M	SOT117	28	DIL	124	–
TDA4510	SOT38	16	DIL	113	IC02
TDA4532	SOT117	28	DIL	113	IC02

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
TDA4555	SOT117	28	DIL	113	IC02
TDA4556	SOT117	28	DIL	113	IC02
TDA4560	SOT102H	18	DIL	113	IC02
TDA4565	SOT102H	18	DIL	113	–
TDA4570	SOT38	16	DIL	113	IC02
TDA4580	SOT117	28	DIL	113	IC02
TDA4710H	SOT196A	48	QFP	123	–
TDA4720	SOT38	16	DIL	123	DS
TDA4720T	SOT109A	16	SO16	123	DS
TDA4730H	SOT196A	48	QFP	123	–
TDA4770H	–	–	–	123	–
TDA4770HT	–	–	–	123	–
TDA5030A	SOT102H	18	DIL	127	IC02
TDA5030AT	SOT163A	20	SO20	127	IC02
TDA5040T	SOT96A	8	SO8	84;103	DS
TDA5045T	SOT96A	8	SO8	84;103	–
TDA5140	SOT102	18	DIL	84;103	–
TDA5230T	SOT137A	24	SO24	127	IC02
TDA5330T	SOT136A	28	SO28	127	DS
TDA5708	SOT117	28	DIL	96	IC01
TDA5709	SOT146	20	DIL	96	IC01
TDA6100	SOT110B	9	SIL	113	–
TDA6800	SOT97	8	DIL	127	–
TDA6800T	SOT96A	8	SO8	127	–
TDA7000	SOT102H	18	DIL	103	IC01
TDA7010T	SOT109A	16	SO16	103	IC01
TDA7021T	SOT109A	16	SO16	103	IC01
TDA7030T	SOT136A	28	SO28	103;105	IC01
TDA7040T	SOT96A	8	SO8	103;105	IC01
TDA7050	SOT97	8	DIL	94;103;106;110	IC01 IC03 IC17
TDA7050T	SOT96A	8	SO8	94;103;106;110	IC01 IC03 IC17
TDA7052	SOT97	8	DIL	94;103;106;110; 112	IC03 IC17
TDA7053	SOT38	16	DIL	94;103	DS
TDA8305	SOT117	28	DIL	124	–
TDA8340	SOT38	16	DIL	127	IC02
TDA8340Q	SOT58	16	QIL	127	IC02
TDA8341	SOT38	16	DIL	127	IC02
TDA8341Q	SOT58	16	QIL	127	IC02
TDA8370	SOT117	28	DIL	118;126	DS
TDA8372A	SOT101B	24	DIL	126	–
TDA8380	SOT38	16	DIL	123	–
TDA8390	SOT201	32	DIL	114	–
TDA8405	SOT117	28	DIL	119;125	IC02 IC12
TDA8420	SOT117	28	DIL	95;99;119;125	IC01 IC02 IC12
TDA8421	SOT117	28	DIL	95;99;119;125	IC12
TDA8425	SOT146	20	DIL	95;99;119;125	DS
TDA8432	SOT101BE	24	DIL	115;125	–
TDA8433	SOT101	24	DIL	115;119;126	–
TDA8440	SOT102H	18	DIL	119;127	IC02

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
TDA8440	SOT102H	18	DIL	119;127	IC12
TDA8442	SOT38	16	DIL	114;119	DS
TDA8443	SOT101B	24	DIL	114;119;127	IC02 IC12
TDA8443A	SOT101B	24	DIL	114;119;127	IC02 IC12
TDA8444	SOT38	16	DIL	95;114;119	DS
TDA8451	SOT38	16	DIL	114	–
TDA8452	SOT38	16	DIL	114	–
TDA8461P	SOT129	40	DIL	114;119	DS
TDA8490	SOT102H	18	DIL	114	DS
TDA8702	SOT38D	16	DIL	80;114	–
TDA8702T	SOT162A	16	SO16L	80;114	–
TDA8703	SOT101	24	DIL	80;114	–
TDA8703T	SOT137A	24	SO24	80;114	–
TDA8706	SOT146	20	DIL	114	–
TDA8708	SOT117	28	DIL	114	–
TDA8808AT	SOT136A	28	SO28	96	DS
TDA8808T	SOT136A	28	SO28	96	DS
TDA8809T	SOT136A	28	SO28	96	DS
TDA9045	SOT102H	18	DIL	127	IC02
TDA9080	SOT117	28	DIL	114	DS
TDB1080	SOT38	16	DIL	93;103	IC11
TDB1080T	SOT109A	16	SO16	93;103	–
TDD1601	SOT101B	24	DIL	95	IC01
TDD1742T	SOT136A	28	SO28	97;105;110	IC01 IC17
TDE8715D	SOT133B	18	CERDIP	114	–
TEA0652	SOT102H	18	DIL	97	IC01
TEA0653T	SOT163A	20	SO20	97	IC01
TEA0654	SOT101A	24	DIL	97	IC01
TEA0657	SOT101A	24	DIL	97	DS
TEA0665	SOT117	28	DIL	97	IC01
TEA0665T	SOT136A	28	S028	97	IC01
TEA0666	SOT117	28	DIL	97	DS
TEA0666T	SOT136A	28	S028	97	DS
TEA0670T	SOT136A	28	SO28	97;103	IC01
TEA1012	SOT38	16	DIL	84	DS
TEA1017	SOT102H	18	DIL	81;83	IC11
TEA1039	SOT110B	9	SIL	123	IC02 IC11
TEA1042	SOT101A	24	DIL	111	IC03
TEA1060	SOT102	18	DIL	111	IC03
TEA1061	SOT102	18	DIL	111	IC03
TEA1063P	SOT146	20	DIL	111	DS
TEA1063T	SOT163A	20	SO20	111	DS
TEA1064	SOT146	20	DIL	111	IC03
TEA1064T	SOT163A	20	SO20	111	IC03
TEA1066T	SOT163A	20	SO20	111	IC03
TEA1067	SOT102	18	DIL	111	IC03
TEA1067T	SOT163A	20	SO20	111	IC03
TEA1068	SOT102	18	DIL	111	IC03
TEA1068T	SOT163A	20	SO20	111	IC03
TEA1081	SOT97	8	DIL	110	IC03
TEA1081T	SOT96A	8	SO8	110	IC03
TEA2000	SOT102H	18	DIL	73;123	IC02 IC14

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
TEA5500	SOT38	16	DIL	92	DS
TEA5500T	SOT162A	16	SO16L	92	DS
TEA5551T	SOT109A	16	SO16	103	DS
TEA5560	SOT142	9	SIL	103	IC01
TEA5570	SOT38	16	DIL	103	IC01
TEA5580	SOT38	16	DIL	105	IC01
TEA5581	SOT38	16	DIL	105	IC01
TEA5581T	SOT162A	16	SO16L	105	IC01
TEA5591	SOT146	20	DIL	103	IC01
TEA6000	SOT102H	18	DIL	99;104	IC01 IC12
TEA6100	SOT146	20	DIL	99;104	IC01 IC12
TEA6200	SOT146	20	DIL	103	DS
TEA6300	SOT117	28	DIL	95;99	DS
TEA6300T	SOT136A	28	SO28	95;99	DS
TEA6310T	SOT136A	28	SO28	95;99	DS
TSA5510	SOT102	18	DIL	127	DS
TSA5510T	SOT109A	16	SO16	127	DS
TSA6057	SOT38	16	DIL	97;105	IC01 IC02 IC12
UAA2033T	SOT136A	28	SO28	112	IC01 IC17
µA723CD	DH	14	SO14	86	IC11
µA723CF	FH	14	CERDIP	86	IC11
µA723CN	NH	14	PLDIL	86	IC11
µA723F	FH	14	CERDIP	86	IC11
µA723N	NH	14	PLDIL	86	IC11
µA733CF	FH	14	CERDIP	76;113	IC11
µA733CN	NH	14	PLDIL	76;113	IC11
µA733F	F	14	CERDIP	76;113	IC11
µA733N	NH	14	PLDIL	76;113	IC11
µA741CD	DE	8	SO8	78	IC11
µA741CF	F	8	CERDIP	78	IC11
µA741CN	NE	8	PLDIL	78	IC11
µA741F	F	8	CERDIP	78	IC11
µA741FE	FE	8	CERDIP	78	–
µA741N	NE	8	PLDIL	78	IC11
µA747CD	DH	14	SO14	78	IC11
µA747CF	FH	14	CERDIP	78	IC11
µA747CN	NH	14	PLDIL	78	IC11
µA747F	FH	14	CERDIP	78	IC11
µA747N	NH	14	PLDIL	78	IC11
µA758N	NJ	16	PLDIL	105	IC11
UBA1094	SOT27	14	DIL	111	–
ULN2003D	DJ	16	SO16	81;83	IC11
ULN2003F	FJ	16	CERDIP	81;83	IC11
ULN2003N	NJ	16	PLDIL	81;83	IC11
ULN2004D	DJ	16	SO16	81;83	IC11
ULN2004F	F	16	CERDIP	81;83	IC11
ULN2004N	NJ	16	PLDIL	81;83	IC11
UMA1000T	SOT136A	28	SO28	93;108;110	IC17
UMA1010T	SOT136A	28	SO28	93;108;110	IC17
UMA1012T	SOT136A	28	SO28	108;110	–
100101F	FN	24	CERDIP	61	IC08
100101Y	YN	24	HLCC/W	61	IC08

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
100102F	FN	24	CERDIP	61	IC08
100102Y	YN	24	HLCC/W	61	IC08
100107F	FN	24	CERDIP	60	IC08
100107Y	YN	24	HLCC/W	60	IC08
100112F	FN	24	CERDIP	60	IC08
100112Y	YN	24	HLCC/W	60	IC08
100113F	FN	24	CERDIP	60	IC08
100113Y	YN	24	HLCC/W	60	IC08
100114F	FN	24	CERDIP	61	IC08
100114Y	YN	24	HLCC/W	61	IC08
100117F	FN	24	CERDIP	60	IC08
100117Y	YN	24	HLCC/W	60	IC08
100118F	FN	24	CERDIP	60	IC08
100118Y	YN	24	HLCC/W	60	IC08
100122F	FN	24	CERDIP	60	IC08
100122Y	YN	24	HLCC/W	60	IC08
100123F	FN	24	CERDIP	60	IC08
100123Y	YN	24	HLCC/W	60	IC08
100126F	FN	24	CERDIP	60	IC08
100126Y	YN	24	HLCC/W	60	IC08
100131F	FN	24	CERDIP	60	IC08
100131Y	YN	24	HLCC/W	60	IC08
100136F	FN	24	CERDIP	61	IC08
100136Y	YN	24	HLCC/W	61	IC08
100141F	FN	24	CERDIP	61	IC08
100141Y	YN	24	HLCC/W	61	IC08
100149AF	F	16	CERDIP	61	IC10
100149F	FJ	16	CERDIP	61	IC10
100150F	FN	24	CERDIP	60	IC08
100150Y	YN	24	HLCC/W	60	IC08
100151F	FN	24	CERDIP	60	IC08
100151Y	YN	24	HLCC/W	60	IC08
100155F	FN	24	CERDIP	61	IC08
100155Y	YN	24	HLCC/W	61	IC08
100158F	FN	24	CERDIP	61	IC08
100158Y	YN	24	HLCC/W	61	IC08
100160F	FN	24	CERDIP	60	IC08
100160Y	YN	24	HLCC/W	60	IC08
100163F	FN	24	CERDIP	61	IC08
100163Y	YN	24	HLCC/W	61	IC08
100164F	FN	24	CERDIP	61	IC08
100164Y	YN	24	HLCC/W	61	IC08
100165F	FN	24	CERDIP	60	IC08
100165Y	YN	24	HLCC/W	60	IC08
100166F	FN	24	CERDIP	60	IC08
100166Y	YN	24	HLCC/W	60	IC08
100170F	FN	24	CERDIP	60	IC08
100170Y	YN	24	HLCC/W	60	IC08
100171F	FN	24	CERDIP	61	IC08
100171Y	YN	24	HLCC/W	61	IC08
100175F	FJ	16	CERDIP	61	IC08
100179F	FN	24	CERDIP	60	IC08
100179Y	YN	24	HLCC/W	60	IC08
100180F	FN	24	CERDIP	60	IC08
100180Y	YN	24	HLCC/W	60	IC08
100181F	FN	24	CERDIP	60	IC08
100181Y	YN	24	HLCC/W	60	IC08

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
100231F	FN	24	CERDIP	60	IC08
100231Y	YN	24	HLCC/W	60	IC08
100255D	SOT74B	16	CERDIP	61	DS
100422BF	F	24	CERDIP	61	IC10
100422CF	F	24	CERDIP	61	IC10
100470AF	F	18	CERDIP	61	IC10
100474AF	F	24	CERDIP	61	IC10
10100F	FJ	16	CERDIP	56	IC08
10100N	NJ	16	PLDIL	56	IC08
10101F	FJ	16	CERDIP	56	IC08
10101N	NJ	16	PLDIL	56	IC08
10102F	FJ	16	CERDIP	56	IC08
10102N	NJ	16	PLDIL	56	IC08
10103F	FJ	16	CERDIP	56	IC08
10103N	NJ	16	PLDIL	56	IC08
10104D	DJ	16	SO16	56	IC08
10104F	FJ	16	CERDIP	56	IC08
10104N	NJ	16	PLDIL	56	IC08
10105F	FJ	16	CERDIP	56	IC08
10105N	NJ	16	PLDIL	56	IC08
10106F	FJ	16	CERDIP	56	IC08
10106N	NJ	16	PLDIL	56	IC08
10107D	DJ	16	SO16	56	IC08
10107F	FJ	16	CERDIP	56	IC08
10107N	NJ	16	PLDIL	56	IC08
10108F	FJ	16	CERDIP	56	IC08
10108N	NJ	16	PLDIL	56	IC08
10109F	FJ	16	CERDIP	56	IC08
10109N	NJ	16	PLDIL	56	IC08
10110F	FJ	16	CERDIP	55	IC08
10110N	NJ	16	PLDIL	55	IC08
10111F	FJ	16	CERDIP	55	IC08
10111N	NJ	16	PLDIL	55	IC08
10113F	FJ	16	CERDIP	56	IC08
10113N	NJ	16	PLDIL	56	IC08
10114F	FJ	16	CERDIP	57	IC08
10114N	NJ	16	PLDIL	57	IC08
10115F	FJ	16	CERDIP	57	IC08
10115N	NJ	16	PLDIL	57	IC08
10116D	DJ	16	SO16	57	IC08
10116F	FJ	16	CERDIP	57	IC08
10116N	NJ	16	PLDIL	57	IC08
10117D	DJ	16	SO16	56	IC08
10117F	FJ	16	CERDIP	56	IC08
10117N	NJ	16	PLDIL	56	IC08
10118N	NJ	16	PLDIL	56	IC08
10119N	NJ	16	PLDIL	56	IC08
10123N	NJ	16	PLDIL	55	IC08
10124F	FJ	16	CERDIP	57	IC08
10124N	NJ	16	PLDIL	57	IC08
10125F	FJ	16	CERDIP	57	IC08
10125N	NJ	16	PLDIL	57	IC08
10130N	NJ	16	PLDIL	56	IC08
10131F	FJ	16	CERDIP	55	IC08
10131N	NJ	16	PLDIL	55	IC08
10133F	FJ	16	CERDIP	56	IC08
10133N	NJ	16	PLDIL	56	IC08

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
10134N	NJ	16	PLDIL	56;57	IC08
10135F	FJ	16	CERDIP	55	IC08
10135N	NJ	16	PLDIL	55	IC08
10136F	FJ	16	CERDIP	55	IC08
10136N	NJ	16	PLDIL	55	IC08
10137F	FJ	16	CERDIP	55	IC08
10137N	NJ	16	PLDIL	55	IC08
10141F	FJ	16	CERDIP	57	IC08
10141N	NJ	16	PLDIL	57	IC08
10149AF	F	16	CERDIP	57	IC10
10149F	FJ	16	CERDIP	57	IC10
10158N	NJ	16	PLDIL	57	IC08
10159F	FJ	16	CERDIP	57	IC08
10159N	NJ	16	PLDIL	57	IC08
10160F	FJ	16	CERDIP	55	IC08
10160N	NJ	16	PLDIL	55	IC08
10161F	FJ	16	CERDIP	55	IC08
10161N	NJ	16	PLDIL	55	IC08
10162N	NJ	16	PLDIL	55	IC08
10164F	FJ	16	CERDIP	57	IC08
10164N	NJ	16	PLDIL	57	IC08
10165N	NJ	16	PLDIL	55	IC08
10171N	NJ	16	PLDIL	55	IC08
10172N	NJ	16	PLDIL	55	IC08
10173N	NJ	16	PLDIL	57	IC08
10174F	FJ	16	CERDIP	57	IC08
10174N	NJ	16	PLDIL	57	IC08
10175N	NJ	16	PLDIL	56	IC08
10176F	FJ	16	CERDIP	55	IC08
10176N	NJ	16	PLDIL	55	IC08
10179N	NJ	16	PLDIL	55	IC08
10181F	FN	24	CERDIP	55	IC08
10181N	NN	24	PLDIL	55	IC08
10188F	FJ	16	CERDIP	55	IC08
10188N	NJ	16	PLDIL	55	IC08
10189N	NJ	16	PLDIL	56	IC08
10192F	FJ	16	CERDIP	55	IC08
10192N	NJ	16	PLDIL	55	IC08
10210F	FJ	16	CERDIP	55	IC08
10210N	NJ	16	PLDIL	55	IC08
10211F	FJ	16	CERDIP	55	IC08
10211N	NJ	16	PLDIL	55	IC08
10216F	FJ	16	CERDIP	55	IC08
10216N	NJ	16	PLDIL	55	IC08
10231F	FJ	16	CERDIP	55	IC08
10231N	NJ	16	PLDIL	55	IC08
10422BF	F	24	CERDIP	57	IC08 IC10
10422CF	F	24	CERDIP	57	IC08 IC10
23 101PB	FO75	64	PGA	63	DS
23 101PBH	FO99	64	PGA	63	DS
231 101PB	FO75	64	PGA	63	DS
231 101PBH	FO99	64	PGA	63	DS
241 141PBK	FO108	144	PGA	73	DS
241 141PBKH	FO128	144	PGA	73	DS
27C256–17FA	FQ	28	CERDIP	65	IC10

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27C256-20A	A	32	PLCC	65	DS
27C256-20FA	FQ	28	CERDIP	65	DS
27C256-20N	NQ	28	PLDIL	65	DS
27C256-25A	A	32	PLCC	65	DS
27C256-25FA	FQ	28	CERDIP	65	DS
27C256-25N	NQ	28	PLDIL	65	DS
27C64A-20A	A	32	PLCC	65	DS
27C64A-20FA	FQ	28	CERDIP	65	DS
27C64A-20N	NQ	28	PLDIL	65	DS
27C64A-25A	A	32	PLCC	65	DS
27C64A-25FA	FQ	28	CERDIP	65	DS
27C64A-25N	NQ	28	PLDIL	65	DS
27HC641-45FA	FN	24	CERDIP	65	DS
27HC641-55FA	FN	24	CERDIP	65	DS
74ACT11000D	D	16	SO16	38	IC07
74ACT11000N	N	16	PLDIL	38	IC07
74ACT11002D	D	16	SO16	38	IC07
74ACT11002N	N	16	PLDIL	38	IC07
74ACT11004D	D	20	SO20	39	IC07
74ACT11004N	N	20	PLDIL	39	IC07
74ACT11008D	D	16	SO16	38	IC07
74ACT11008N	N	16	PLDIL	38	IC07
74ACT11010D	D	16	SO16	38	IC07
74ACT11010N	N	16	PLDIL	38	IC07
74ACT11011D	D	16	SO16	38	IC07
74ACT11011N	N	16	PLDIL	38	IC07
74ACT11013D	D	14	SO14	38;40	–
74ACT11013N	N	14	PLDIL	38;40	–
74ACT11014D	D	20	SO20	39;40	–
74ACT11014N	N	20	PLDIL	39;40	–
74ACT11020D	D	14	SO14	38	IC07
74ACT11020N	N	14	PLDIL	38	IC07
74ACT11021D	D	14	SO14	38	IC07
74ACT11021N	N	14	PLDIL	38	IC07
74ACT11027D	D	16	SO16	38	IC07
74ACT11027N	N	16	PLDIL	38	IC07
74ACT11030D	D	14	SO14	38	IC07
74ACT11030N	N	14	PLDIL	38	IC07
74ACT11032D	D	16	SO16	38;40	IC07
74ACT11032N	N	16	PLDIL	38;40	IC07
74ACT11034D	D	20	SO20	39	–
74ACT11034N	N	20	PLDIL	39	–
74ACT11051D	D	14	SO14	38	–
74ACT11051N	N	14	PLDIL	38	–
74ACT11064D	D	14	SO14	38	–
74ACT11064N	N	14	PLDIL	38	–
74ACT11074D	D	14	SO14	37	IC07
74ACT11074N	N	14	PLDIL	37	IC07
74ACT11086D	D	16	SO16	38	–
74ACT11086N	N	16	PLDIL	38	–
74ACT11109D	D	16	SO16	37	IC07
74ACT11109N	N	16	PLDIL	37	IC07
74ACT11112D	D	16	SO16	37	–
74ACT11112N	N	16	PLDIL	37	–
74ACT11132D	D	16	SO16	38	–
74ACT11132N	N	16	PLDIL	38	–
74ACT11138D	D	16	SO16	36	IC07

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74ACT11138N	N	16	PLDIL	36	IC07
74ACT11139D	D	16	SO16	36	–
74ACT11139N	N	16	PLDIL	36	–
74ACT11150D	D	24	SO24	39	–
74ACT11150N	N	24	PLDIL	39	–
74ACT11151D	D	16	SO16	39	–
74ACT11151N	N	16	PLDIL	39	–
74ACT11153D	D	16	SO16	39	–
74ACT11153N	N	16	PLDIL	39	–
74ACT11154D	D	24	SO24	36	–
74ACT11154N	N	24	PLDIL	36	–
74ACT11157D	D	20	SO20	39	–
74ACT11157N	N	20	PLDIL	39	–
74ACT11158D	D	20	SO20	39	IC07
74ACT11158N	N	20	PLDIL	39	IC07
74ACT11160D	D	20	SO20	35	IC07
74ACT11160N	N	20	PLDIL	35	IC07
74ACT11161D	D	20	SO20	35	–
74ACT11161N	N	20	PLDIL	35	–
74ACT11162D	D	20	SO20	35	IC07
74ACT11162N	N	20	PLDIL	35	IC07
74ACT11163D	D	20	SO20	35	–
74ACT11163N	N	20	PLDIL	35	–
74ACT11168D	D	20	SO20	35	–
74ACT11168N	N	20	PLDIL	35	–
74ACT11169D	D	20	SO20	35	–
74ACT11169N	N	20	PLDIL	35	–
74ACT11174D	D	20	SO20	37	–
74ACT11174N	N	20	PLDIL	37	–
74ACT11175D	D	20	SO20	37	–
74ACT11175N	N	20	PLDIL	37	–
74ACT11181D	D	28	SO28	35	–
74ACT11181N	N	28	PLDIL	35	–
74ACT11190D	D	20	SO20	35	–
74ACT11190N	N	20	PLDIL	35	–
74ACT11191D	D	20	SO20	35	–
74ACT11191N	N	20	PLDIL	35	–
74ACT11192D	D	20	SO20	35	–
74ACT11192N	N	20	PLDIL	35	–
74ACT11193D	D	20	SO20	35	–
74ACT11193N	N	20	PLDIL	35	–
74ACT11194D	D	20	SO20	39	–
74ACT11194N	N	20	PLDIL	39	–
74ACT11208D	D	20	SO20	36	–
74ACT11208N	N	20	PLDIL	36	–
74ACT11238D	D	16	SO16	36	IC07
74ACT11238N	N	16	PLDIL	36	IC07
74ACT11239D	D	16	SO16	36	–
74ACT11239N	N	16	PLDIL	36	–
74ACT11240D	D	24	SO24	35;36	IC07
74ACT11240N	N	24	PLDIL	35;36	IC07
74ACT11241D	D	24	SO24	35;36	IC07
74ACT11241N	N	24	PLDIL	35;36	IC07
74ACT11244D	D	24	SO24	35;36	IC07
74ACT11244N	N	24	PLDIL	35;36	IC07
74ACT11245D	D	24	SO24	40	IC07
74ACT11245N	N	24	PLDIL	40	IC07

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74ACT11250D	D	24	SO24	39	–
74ACT11250N	N	24	PLDIL	39	–
74ACT11251D	D	16	SO16	39	–
74ACT11251N	N	16	PLDIL	39	–
74ACT11253D	D	16	SO16	39	IC07
74ACT11253N	N	16	PLDIL	39	IC07
74ACT11257D	D	20	SO20	39	–
74ACT11257N	N	20	PLDIL	39	–
74ACT11258D	D	20	SO20	39	–
74ACT11258N	N	20	PLDIL	39	–
74ACT11269D	D	28	SO28	36	–
74ACT11269N	N	28	PLDIL	36	–
74ACT11273D	D	24	SO24	37	–
74ACT11273N	N	24	PLDIL	37	–
74ACT11280D	D	14	SO14	35	–
74ACT11280N	N	14	PLDIL	35	–
74ACT11286D	D	14	SO14	35	–
74ACT11286N	N	14	PLDIL	35	–
74ACT11299D	D	24	SO24	39	–
74ACT11299N	N	24	PLDIL	39	–
74ACT11323D	D	24	SO24	39	–
74ACT11323N	N	24	PLDIL	39	–
74ACT11352D	D	16	SO16	39	–
74ACT11352N	N	16	PLDIL	39	–
74ACT11353D	D	16	SO16	39	IC07
74ACT11353N	N	16	PLDIL	39	IC07
74ACT11373D	D	24	SO24	37;39	IC07
74ACT11373N	N	24	PLDIL	37;39	IC07
74ACT11374D	D	24	SO24	37	IC07
74ACT11374N	N	24	PLDIL	37	IC07
74ACT11377D	D	24	SO24	37	–
74ACT11377N	N	24	PLDIL	37	–
74ACT11378D	D	20	SO20	37	–
74ACT11378N	N	20	PLDIL	37	–
74ACT11379D	D	20	SO20	37	–
74ACT11379N	N	20	PLDIL	37	–
74ACT11461D	D	28	SO28	36	–
74ACT11461N	N	28	PLDIL	36	–
74ACT11463D	D	28	SO28	36	–
74ACT11463N	N	28	PLDIL	36	–
74ACT11469D	D	28	SO28	36	–
74ACT11469N	N	28	PLDIL	36	–
74ACT11470D	D	28	SO28	40	–
74ACT11470N	N	28	PLDIL	40	–
74ACT11471D	D	28	SO28	40	–
74ACT11471N	N	28	PLDIL	40	–
74ACT11472D	D	28	SO28	40	–
74ACT11472N	N	28	PLDIL	40	–
74ACT11473D	D	28	SO28	40	–
74ACT11473N	N	28	PLDIL	40	–
74ACT11474D	D	28	SO28	40	–
74ACT11474N	N	28	PLDIL	40	–
74ACT11475D	D	28	SO28	40	–
74ACT11475N	N	28	PLDIL	40	–
74ACT11520D	D	20	SO20	35	–
74ACT11520N	N	20	PLDIL	35	–
74ACT11521D	D	20	SO20	35	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74ACT11521N	N	20	PLDIL	35	–
74ACT11533D	D	24	SO24	37;39	–
74ACT11533N	N	24	PLDIL	37;39	–
74ACT11534D	D	24	SO24	37	–
74ACT11534N	N	24	PLDIL	37	–
74ACT11543D	D	28	SO28	40	–
74ACT11543N	N	28	PLDIL	40	–
74ACT11544D	D	28	SO28	40	–
74ACT11544N	N	28	PLDIL	40	–
74ACT11568D	D	24	SO24	36	–
74ACT11568N	N	24	PLDIL	36	–
74ACT11569D	D	24	SO24	36	–
74ACT11569N	N	24	PLDIL	36	–
74ACT11579D	D	24	SO20	36	–
74ACT11579N	N	24	PLDIL	36	–
74ACT11590D	D	20	SO20	36	–
74ACT11590N	N	20	PLDIL	36	–
74ACT11592D	D	16	SO16	36	–
74ACT11592N	N	16	PLDIL	36	–
74ACT11593D	D	24	SO24	36	–
74ACT11593N	N	24	PLDIL	36	–
74ACT11620D	D	24	SO24	40	–
74ACT11620N	N	24	PLDIL	40	–
74ACT11623D	D	24	SO24	40	–
74ACT11623N	N	24	PLDIL	40	–
74ACT11640D	D	24	SO24	40	–
74ACT11640N	N	24	PLDIL	40	–
74ACT11643D	D	24	SO24	40	–
74ACT11643N	N	24	PLDIL	40	–
74ACT11646D	D	28	SO28	40	–
74ACT11646N	N	28	PLDIL	40	–
74ACT11648D	D	28	SO28	40	–
74ACT11648N	N	28	PLDIL	40	–
74ACT11651D	D	28	SO28	40	–
74ACT11651N	N	28	PLDIL	40	–
74ACT11652D	D	28	SO28	40	–
74ACT11652N	N	28	PLDIL	40	–
74ACT11655D	D	28	SO28	35;36	–
74ACT11655N	N	28	PLDIL	35;36	–
74ACT11656D	D	28	SO28	35;36	–
74ACT11656N	N	28	PLDIL	35;36	–
74ACT11657D	D	28	SO28	40	–
74ACT11657N	N	28	PLDIL	40	–
74ACT11677D	D	24	SO24	35	–
74ACT11677N	N	24	PLDIL	35	–
74ACT11678D	D	24	SO24	35	–
74ACT11678N	N	24	PLDIL	35	–
74ACT11800D	D	24	SO24	38	–
74ACT11800N	N	24	PLDIL	38	–
74ACT11802D	D	24	SO24	38	–
74ACT11802N	N	24	PLDIL	38	–
74ACT11810D	D	16	SO16	38	–
74ACT11810N	N	16	PLDIL	38	–
74ACT11818D	D	28	SO28	39	–
74ACT11818N	N	28	PLDIL	39	–
74ACT11819D	D	28	SO28	39	–
74ACT11819N	N	28	PLDIL	39	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74ACT11821D	D	28	SO28	37	–
74ACT11821N	N	28	PLDIL	37	–
74ACT11822D	D	28	SO28	37	–
74ACT11822N	N	28	PLDIL	37	–
74ACT11823D	D	28	SO28	37	–
74ACT11823N	N	28	PLDIL	37	–
74ACT11824D	D	28	SO28	37	–
74ACT11824N	N	28	PLDIL	37	–
74ACT11825D	D	28	SO28	37	–
74ACT11825N	N	28	PLDIL	37	–
74ACT11826D	D	28	SO28	37	–
74ACT11826N	N	28	PLDIL	37	–
74ACT11827D	D	28	SO28	35;36	–
74ACT11827N	N	28	PLDIL	35;36	–
74ACT11828D	D	28	SO28	35;36	–
74ACT11828N	N	28	PLDIL	35;36	–
74ACT11833D	D	28	SO28	40	–
74ACT11833N	N	28	PLDIL	40	–
74ACT11834D	D	28	SO28	40	–
74ACT11834N	N	28	PLDIL	40	–
74ACT11841D	D	28	SO28	37;39	–
74ACT11841N	N	28	PLDIL	37;39	–
74ACT11842D	D	28	SO28	37;39	–
74ACT11842N	N	28	PLDIL	37;39	–
74ACT11843D	D	28	SO28	37;39	–
74ACT11843N	N	28	PLDIL	37;39	–
74ACT11844D	D	28	SO28	37;39	–
74ACT11844N	N	28	PLDIL	37;39	–
74ACT11845D	D	28	SO28	37;39	–
74ACT11845N	N	28	PLDIL	37;39	–
74ACT11846D	D	28	SO28	37;39	–
74ACT11846N	N	28	PLDIL	37;39	–
74ACT11852D	D	28	SO28	40	–
74ACT11852N	N	28	PLDIL	40	–
74ACT11853D	D	28	SO28	40	–
74ACT11853N	N	28	PLDIL	40	–
74ACT11854D	D	28	SO28	40	–
74ACT11854N	N	28	PLDIL	40	–
74ACT11856D	D	28	SO28	40	–
74ACT11856N	N	28	PLDIL	40	–
74ACT11858D	D	28	SO28	39	–
74ACT11858N	N	28	PLDIL	39	–
74ACT11859D	D	28	SO28	39	–
74ACT11859N	N	28	PLDIL	39	–
74ACT11860D	D	24	SO24	35	–
74ACT11860N	N	24	PLDIL	35	–
74ACT11861D	D	28	SO28	40	–
74ACT11861N	N	28	PLDIL	40	–
74ACT11862D	D	28	SO28	41	–
74ACT11862N	N	28	PLDIL	41	–
74ACT11863D	D	28	SO28	41	–
74ACT11863N	N	28	PLDIL	41	–
74ACT11864D	D	28	SO28	41	–
74ACT11864N	N	28	PLDIL	41	–
74ACT11865D	D	16	SO16	35	–
74ACT11865N	N	16	PLDIL	35	–
74ACT11867D	D	28	SO28	36	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74ACT11867N	N	28	PLDIL	36	–
74ACT11869D	D	28	SO28	36	–
74ACT11869N	N	28	PLDIL	36	–
74ACT11870D	D	28	SO28	39	–
74ACT11870N	N	28	PLDIL	39	–
74ACT11873D	D	28	SO28	37;39	–
74ACT11873N	N	28	PLDIL	37;39	–
74ACT11874D	D	28	SO28	37	–
74ACT11874N	N	28	PLDIL	37	–
74ACT11877D	D	28	SO28	41	–
74ACT11877N	N	28	PLDIL	41	–
74ACT11881D	D	28	SO28	35	–
74ACT11881N	N	28	PLDIL	35	–
74ACT11882D	D	28	SO28	35	–
74ACT11882N	N	28	PLDIL	35	–
74ACT11885D	D	24	SO24	35	–
74ACT11885N	N	24	PLDIL	35	–
74ACT11898D	D	20	SO20	39	–
74ACT11898N	N	20	PLDIL	39	–
74ACT11979D	D	16	SO16	39	–
74ACT11979N	N	16	PLDIL	39	–
74ACT11980D	D	20	SO20	39	–
74ACT11980N	N	20	PLDIL	39	–
74ACT11981D	D	20	SO20	39	–
74ACT11981N	N	20	PLDIL	39	–
74ACT11987D	D	20	SO20	40	–
74ACT11987N	N	20	PLDIL	40	–
74ACT11988D	D	20	SO20	40	–
74ACT11988N	N	20	PLDIL	40	–
74AC11000D	D	16	SO16	38	IC07
74AC11000N	N	16	PLDIL	38	IC07
74AC11002D	D	16	SO16	38	IC07
74AC11002N	N	16	PLDIL	38	IC07
74AC11004D	D	20	SO20	39	IC07
74AC11004N	N	20	PLDIL	39	IC07
74AC11008D	D	16	SO16	38	IC07
74AC11008N	N	16	PLDIL	38	IC07
74AC11010D	D	16	SO16	38	IC07
74AC11010N	N	16	PLDIL	38	IC07
74AC11011D	D	16	SO16	38	IC07
74AC11011N	N	16	PLDIL	38	IC07
74AC11013D	D	14	SO14	38;40	–
74AC11013N	N	14	PLDIL	38;40	–
74AC11014D	D	20	SO20	38;40	–
74AC11014N	N	20	PLDIL	38;40	–
74AC11020D	D	14	SO14	38	IC07
74AC11020N	N	14	PLDIL	38	IC07
74AC11021D	D	14	SO14	38	IC07
74AC11021N	N	14	PLDIL	38	IC07
74AC11027D	D	16	SO16	38	IC07
74AC11027N	N	16	PLDIL	38	IC07
74AC11030D	D	14	SO14	38	IC07
74AC11030N	N	14	PLDIL	38	IC07
74AC11032D	D	16	SO16	38	IC07
74AC11032N	N	16	PLDIL	38	IC07
74AC11034D	D	20	SO20	39	–
74AC11034N	N	20	PLDIL	39	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74AC11051D	D	14	SO14	38	–
74AC11051N	N	14	PLDIL	38	–
74AC11064D	D	14	SO14	38	–
74AC11064N	N	14	PLDIL	38	–
74AC11074D	D	14	SO14	37	IC07
74AC11074N	N	14	PLDIL	37	IC07
74AC11086D	D	16	SO16	38	–
74AC11086N	N	16	PLDIL	38	–
74AC11109D	D	16	SO16	37	IC07
74AC11109N	N	16	PLDIL	37	IC07
74AC11112D	D	16	SO16	37	–
74AC11112N	N	16	PLDIL	37	–
74AC11132D	D	16	SO16	40	–
74AC11132N	N	16	PLDIL	40	–
74AC11138D	D	16	SO16	36	IC07
74AC11138N	N	16	PLDIL	36	IC07
74AC11139D	D	16	SO16	36	–
74AC11139N	N	16	PLDIL	36	–
74AC11150D	D	24	SO24	39	–
74AC11150N	N	24	PLDIL	39	–
74AC11151D	D	16	SO16	39	–
74AC11151N	N	16	PLDIL	39	–
74AC11153D	D	16	SO16	39	–
74AC11153N	N	16	PLDIL	39	–
74AC11154D	D	24	SO24	36	–
74AC11154N	N	24	PLDIL	36	–
74AC11157D	D	20	SO20	39	–
74AC11157N	N	20	PLDIL	39	–
74AC11158D	D	20	SO20	39	IC07
74AC11158N	N	20	PLDIL	39	IC07
74AC11160D	D	20	SO20	35	IC07
74AC11160N	N	20	PLDIL	35	IC07
74AC11161D	D	20	SO20	35	–
74AC11161N	N	20	PLDIL	35	–
74AC11162D	D	20	SO20	35	IC07
74AC11162N	N	20	PLDIL	35	IC07
74AC11163D	D	20	SO20	35	–
74AC11163N	N	20	PLDIL	35	–
74AC11168D	D	20	SO20	35	–
74AC11168N	N	20	PLDIL	35	–
74AC11169D	D	20	SO20	35	–
74AC11169N	N	20	PLDIL	35	–
74AC11174D	D	20	SO20	37	–
74AC11174N	N	20	PLDIL	37	–
74AC11175D	D	20	SO20	37	–
74AC11175N	N	20	PLDIL	37	–
74AC11181D	D	28	SO28	35	–
74AC11181N	N	28	PLDIL	35	–
74AC11190D	D	20	SO20	35	–
74AC11190N	N	20	PLDIL	35	–
74AC11191D	D	20	SO20	35	–
74AC11191N	N	20	PLDIL	35	–
74AC11192D	D	20	SO20	35	–
74AC11192N	N	20	PLDIL	35	–
74AC11193D	D	20	SO20	35	–
74AC11193N	N	20	PLDIL	35	–
74AC11194D	D	20	SO20	39	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74AC11194N	N	20	PLDIL	39	–
74AC11208D	D	20	SO20	36	–
74AC11208N	N	20	PLDIL	36	–
74AC11238D	D	16	SO16	36	IC07
74AC11238N	N	16	PLDIL	36	IC07
74AC11239D	D	16	SO16	36	–
74AC11239N	N	16	PLDIL	36	–
74AC11240D	D	24	SO24	35;36	IC07
74AC11240N	N	24	PLDIL	35;36	IC07
74AC11241D	D	24	SO24	35;36	IC07
74AC11241N	N	24	PLDIL	35;36	IC07
74AC11244D	D	24	SO24	35;36	IC07
74AC11244N	N	24	PLDIL	35;36	IC07
74AC11245D	D	24	SO24	40	IC07
74AC11245N	N	24	PLDIL	40	IC07
74AC11250D	D	24	SO24	39	–
74AC11250N	N	24	PLDIL	39	–
74AC11251D	D	16	SO16	39	–
74AC11251N	N	16	PLDIL	39	–
74AC11253D	D	16	SO16	39	IC07
74AC11253N	N	16	PLDIL	39	IC07
74AC11257D	D	20	SO20	39	–
74AC11257N	N	20	PLDIL	39	–
74AC11258D	D	20	SO20	39	–
74AC11258N	N	20	PLDIL	39	–
74AC11269D	D	28	SO28	36	–
74AC11269N	N	28	PLDIL	36	–
74AC11273D	D	24	SO24	37	–
74AC11273N	N	24	PLDIL	37	–
74AC11280D	D	14	SO14	35	–
74AC11280N	N	14	PLDIL	35	–
74AC11286D	D	14	SO14	35	–
74AC11286N	N	14	PLDIL	35	–
74AC11299D	D	24	SO24	39	–
74AC11299N	N	24	PLDIL	39	–
74AC11323D	D	24	SO24	39	–
74AC11323N	N	24	PLDIL	39	–
74AC11352D	D	16	SO16	39	–
74AC11352N	N	16	PLDIL	39	–
74AC11353D	D	16	SO16	39	IC07
74AC11353N	N	16	PLDIL	39	IC07
74AC11373D	D	24	SO24	37;39	IC07
74AC11373N	N	24	PLDIL	37;39	IC07
74AC11374D	D	24	SO24	37	IC07
74AC11374N	N	24	PLDIL	37	IC07
74AC11377D	D	24	SO24	37	–
74AC11377N	N	24	PLDIL	37	–
74AC11378D	D	20	SO20	37	–
74AC11378N	N	20	PLDIL	37	–
74AC11379D	D	20	SO20	37	–
74AC11379N	N	20	PLDIL	37	–
74AC11461D	D	28	SO28	36	–
74AC11461N	N	28	PLDIL	36	–
74AC11463D	D	28	SO28	36	–
74AC11463N	N	28	PLDIL	36	–
74AC11469D	D	28	SO28	36	–
74AC11469N	N	28	PLDIL	36	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74AC11470D	D	28	SO28	40	–
74AC11470N	N	28	PLDIL	40	–
74AC11471D	D	28	SO28	40	–
74AC11471N	N	28	PLDIL	40	–
74AC11472D	D	28	SO28	40	–
74AC11472N	N	28	PLDIL	40	–
74AC11473D	D	28	SO28	40	–
74AC11473N	N	28	PLDIL	40	–
74AC11474D	D	28	SO28	40	–
74AC11474N	N	28	PLDIL	40	–
74AC11475D	D	28	SO28	40	–
74AC11475N	N	28	PLDIL	40	–
74AC11520D	D	20	SO20	35	–
74AC11520N	N	20	PLDIL	35	–
74AC11521D	D	20	SO20	35	–
74AC11521N	N	20	PLDIL	35	–
74AC11533D	D	24	SO24	37;39	–
74AC11533N	N	24	PLDIL	37;39	–
74AC11534D	D	24	SO24	37	–
74AC11534N	N	24	PLDIL	37	–
74AC11543D	D	28	SO28	40	–
74AC11543N	N	28	PLDIL	40	–
74AC11544D	D	28	SO28	40	–
74AC11544N	N	28	PLDIL	40	–
74AC11568D	D	24	SO24	36	–
74AC11568N	N	24	PLDIL	36	–
74AC11569D	D	24	SO24	36	–
74AC11569N	N	24	PLDIL	36	–
74AC11579D	D	24	SO20	36	–
74AC11579N	N	24	PLDIL	36	–
74AC11590D	D	20	SO20	36	–
74AC11590N	N	20	PLDIL	36	–
74AC11592D	D	16	SO16	36	–
74AC11592N	N	16	PLDIL	36	–
74AC11593D	D	24	SO24	36	–
74AC11593N	N	24	PLDIL	36	–
74AC11620D	D	24	SO24	40	–
74AC11620N	N	24	PLDIL	40	–
74AC11623D	D	24	SO24	40	–
74AC11623N	N	24	PLDIL	40	–
74AC11640D	D	24	SO24	40	–
74AC11640N	N	24	PLDIL	40	–
74AC11643D	D	24	SO24	40	–
74AC11643N	N	24	PLDIL	40	–
74AC11646D	D	28	SO28	40	–
74AC11646N	N	28	PLDIL	40	–
74AC11648D	D	28	SO28	40	–
74AC11648N	N	28	PLDIL	40	–
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74AC11655D	D	28	SO28	35;36	–
74AC11655N	N	28	PLDIL	35;36	–
74AC11656D	D	28	SO28	35;36	–
74AC11656N	N	28	PLDIL	35;36	–
74AC11657D	D	28	SO28	40	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74AC11657N	N	28	PLDIL	40	–
74AC11677D	D	24	SO24	35	–
74AC11677N	N	24	PLDIL	35	–
74AC11678D	D	24	SO24	35	–
74AC11678N	N	24	PLDIL	35	–
74AC11800D	D	24	SO24	38	–
74AC11800N	N	24	PLDIL	38	–
74AC11802D	D	24	SO24	38	–
74AC11802N	N	24	PLDIL	38	–
74AC11810D	D	16	SO16	38	–
74AC11810N	N	16	PLDIL	38	–
74AC11818D	D	28	SO28	39	–
74AC11818N	N	28	PLDIL	39	–
74AC11819D	D	28	SO28	39	–
74AC11819N	N	28	PLDIL	39	–
74AC11821D	D	28	SO28	37	–
74AC11821N	N	28	PLDIL	37	–
74AC11822D	D	28	SO28	37	–
74AC11822N	N	28	PLDIL	37	–
74AC11823D	D	28	SO28	37	–
74AC11823N	N	28	PLDIL	37	–
74AC11824D	D	28	SO28	37	–
74AC11824N	N	28	PLDIL	37	–
74AC11825D	D	28	SO28	37	–
74AC11825N	N	28	PLDIL	37	–
74AC11826D	D	28	SO28	37	–
74AC11826N	N	28	PLDIL	37	–
74AC11827D	D	28	SO28	35;36	–
74AC11827N	N	28	PLDIL	35;36	–
74AC11828D	D	28	SO28	35;36	–
74AC11828N	N	28	PLDIL	35;36	–
74AC11833D	D	28	SO28	40	–
74AC11833N	N	28	PLDIL	40	–
74AC11834D	D	28	SO28	40	–
74AC11834N	N	28	PLDIL	40	–
74AC11841D	D	28	SO28	37;39	–
74AC11841N	N	28	PLDIL	37;39	–
74AC11842D	D	28	SO28	37;39	–
74AC11842N	N	28	PLDIL	37;39	–
74AC11843D	D	28	SO28	37;39	–
74AC11843N	N	28	PLDIL	37;39	–
74AC11844D	D	28	SO28	37;39	–
74AC11844N	N	28	PLDIL	37;39	–
74AC11845D	D	28	SO28	37;39	–
74AC11845N	N	28	PLDIL	37;39	–
74AC11846D	D	28	SO28	37;39	–
74AC11846N	N	28	PLDIL	37;39	–
74AC11852D	D	28	SO28	40	–
74AC11852N	N	28	PLDIL	40	–
74AC11853D	D	28	SO28	40	–
74AC11853N	N	28	PLDIL	40	–
74AC11854D	D	28	SO28	40	–
74AC11854N	N	28	PLDIL	40	–
74AC11856D	D	28	SO28	40	–
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74AC11858D	D	28	SO28	39	–
74AC11858N	N	28	PLDIL	39	–

extended type no.	package code	no. of pins	pin position	catalogue page no.	handbook
74AC11859D	D	28	SO28	39	–
74AC11859N	N	28	PLDIL	39	–
74AC11860D	D	24	SO24	35	–
74AC11860N	N	24	PLDIL	35	–
74AC11861D	D	28	SO28	40	–
74AC11861N	N	28	PLDIL	40	–
74AC11862D	D	28	SO28	41	–
74AC11862N	N	28	PLDIL	41	–
74AC11863D	D	28	SO28	41	–
74AC11863N	N	28	PLDIL	41	–
74AC11864D	D	28	SO28	41	–
74AC11864N	N	28	PLDIL	41	–
74AC11865D	D	16	SO16	35	–
74AC11865N	N	16	PLDIL	35	–
74AC11867D	D	28	SO28	36	–
74AC11867N	N	28	PLDIL	36	–
74AC11869D	D	28	SO28	36	IC07
74AC11869N	N	28	PLDIL	36	IC07
74AC11870D	D	28	SO28	39	–
74AC11870N	N	28	PLDIL	39	–
74AC11873D	D	28	SO28	37;39	–
74AC11873N	N	28	PLDIL	37;39	–
74AC11874D	D	28	SO28	37	–
74AC11874N	N	28	PLDIL	37	–
74AC11877D	D	28	SO28	41	–
74AC11877N	N	28	PLDIL	41	–
74AC11881D	D	28	SO28	35	–
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74AC11882D	D	28	SO28	35	–
74AC11882N	N	28	PLDIL	35	–
74AC11885D	D	24	SO24	35	–
74AC11885N	N	24	PLDIL	35	–
74AC11898D	D	20	SO20	39	–
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74AC11980D	D	20	SO20	39	–
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74AC11987D	D	20	SO20	40	–
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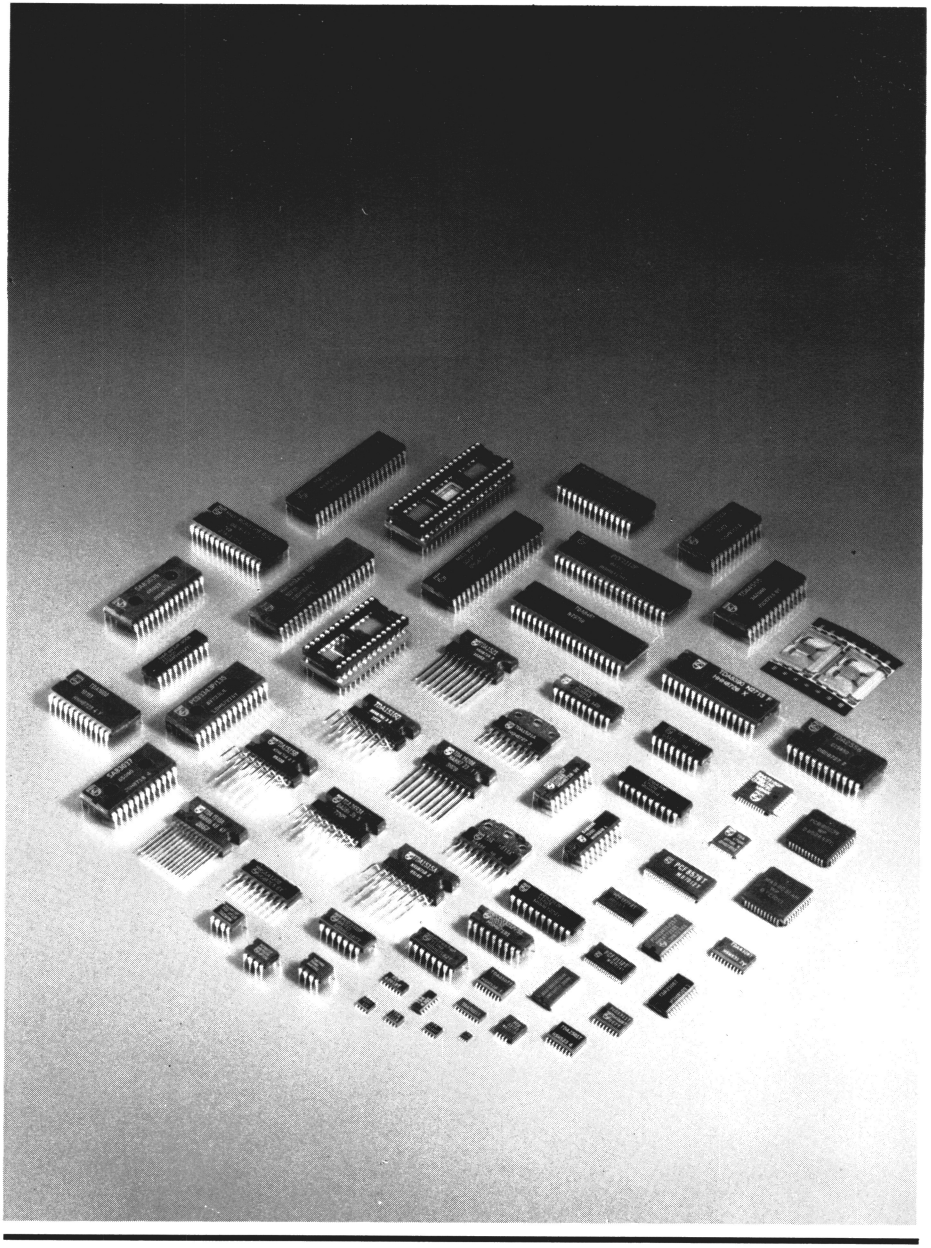

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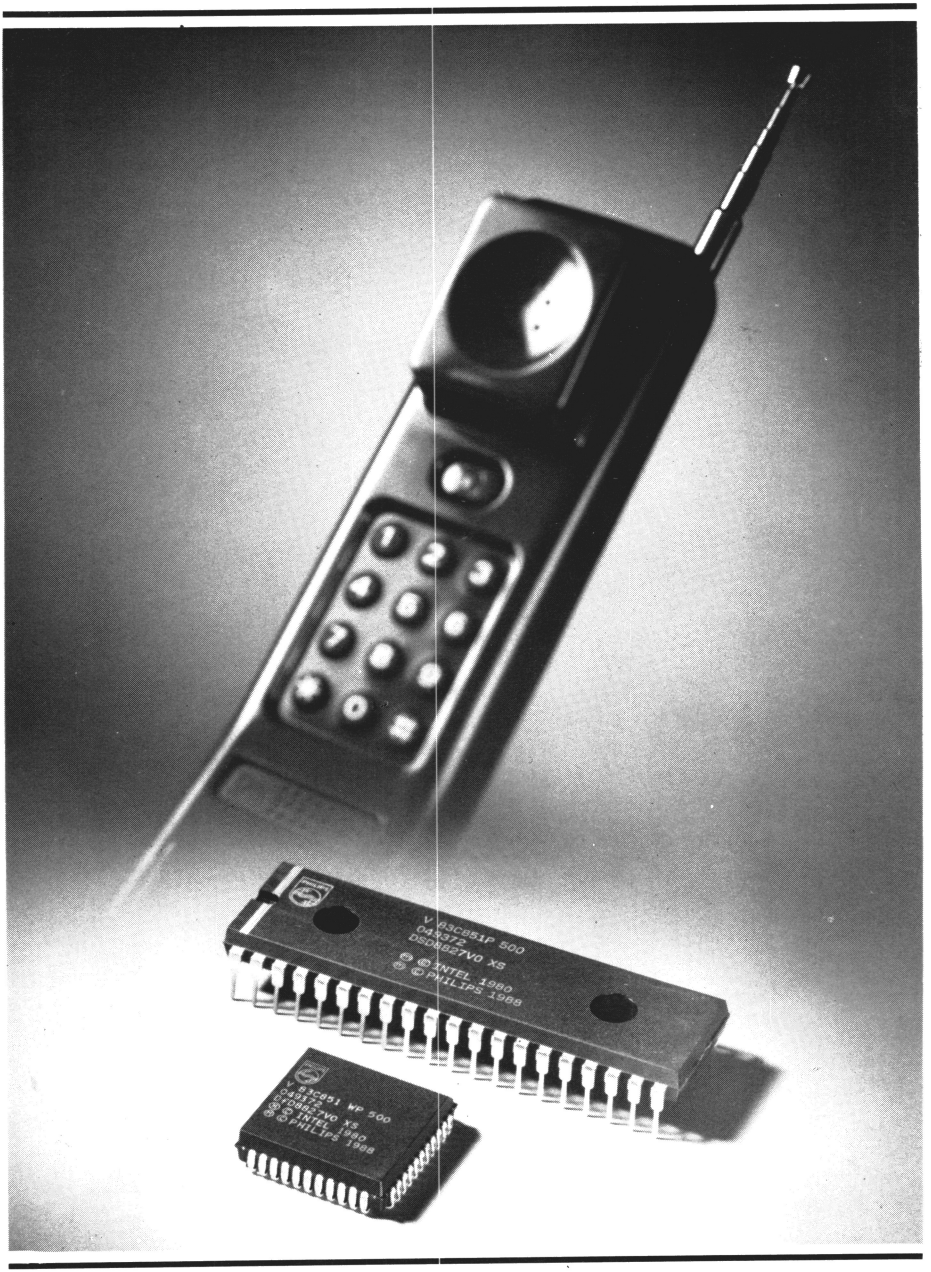
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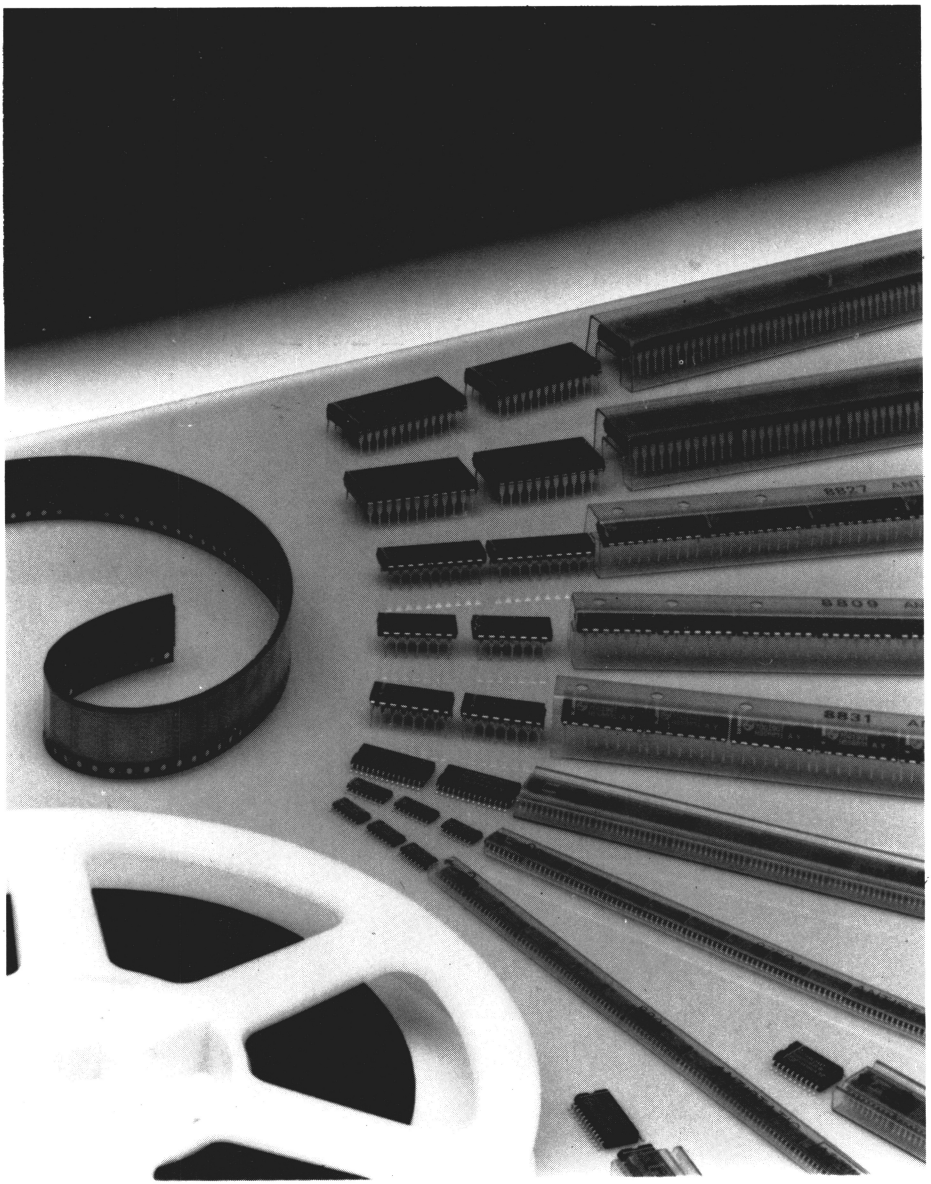

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Introduction

Our Data Handbook System comprises more than 60 books with specifications on electronic components, subassemblies and materials. It is made up of six series of handbooks:

INTEGRATED CIRCUITS
DISCRETE SEMICONDUCTORS
DISPLAY COMPONENTS
PASSIVE COMPONENTS
PROFESSIONAL COMPONENTS
MATERIALS

The data handbooks contain all pertinent data available at the time of publication, and each is revised and reissued periodically.
When ratings or specifications differ from those published in the preceding edition they are indicated with arrows in the page margin. Where application information is given it is advisory and does not form part of the product specification.
Information on current Data Handbooks and on how to obtain a subscription for future issues is available from any of the Organizations listed on the back cover.
Product specialists are at your service and enquiries will be answered promptly.

INTEGRATED CIRCUITS
This series of data handbooks comprises:

IC01	**Radio, audio and associated systems** Bipolar, MOS
IC02a/b	**Video and associated systems** Bipolar, MOS
IC03	**ICs for Telecom** Bipolar, MOS Subscriber sets, Cordless Telephones
IC04	**HE4000B logic family** CMOS
IC05	**not yet issued**
IC06	**High–speed CMOS; PC74HC/HCT/HCU** Logic family
IC07	**not yet issued**
IC08	**ECL 10K and 100K logic families**
IC09	**TTL logic series**
IC10	**Memories** MOS, TTL, ECL
IC11	**Linear Products**
IC12	**I²C–bus compatible ICs**
IC13	**Semi–custom** Programmable Logic Devices (PLD)
IC14	**Microcontrollers** Bipolar, MOS
IC15	**FAST TTL logic series**
IC16	**CMOS integrated circuits for clocks and watches**
IC17	**ICs for Telecom** Bipolar, MOS Radio pagers, Mobile telephones, ISDN
IC18	**Microprocessors and peripherals**
IC19	**Data communication products**

DISCRETE SEMICONDUCTORS

This series of data handbooks comprises:

current code	new code	handbook title
S1	**SC01**	**Diodes** High–voltage tripler units
S2a	**SC02**	**Power diodes**
S2b	**SC03**	**Thyristors and triacs**
S3	**SC04**	**Small–signal transistors**
S4a	**SC05**	**Low–frequency power transistors and hybrid IC power modules**
S4b	**SC06**	**High–voltage and switching power transistors**
S5	**SC07**	**Small–signal field–effect transistors**
S6*	**SC08** **SC09**	**RF power transistors** **RF power modules**
S7	**SC10**	**Surface mounted semiconductors**
S8a	**SC11**	**Light emitting diodes**
S8b	**SC12**	**Optocouplers**
S9	**SC13**	**PowerMOS transistors**
S10	**SC14**	**Wideband transistors and wideband hybrid IC modules**
S11	**SC15**	**Microwave transistors**
S15**	**SC16**	**Laser diodes**
S13	**SC17**	**Semiconductor sensors**
S14	**SC18**	**Liquid crystal displays and driver ICs for LCDs**

* The current handbook S6 will be divided into 2 handbooks (SC08 and SC09).
** New handbook in this series; will be issued shortly.

DISPLAY COMPONENTS

This series of data handbooks comprises:

current code	new code	handbook title
T8	**DC01**	**Colour display systems**
T16	**DC02**	**Monochrome tubes and deflection units**
C2	**DC03**	**Television tuners, coaxial aerial input assemblies**
C3	**DC04**	**Loudspeakers**
C20	**DC05**	**Wire–wound components for TVs and monitors**

PASSIVE COMPONENTS
This series of data handbooks comprises:

current code	new code	handbook title
C14	**PA01**	**Electrolytic capacitors; solid and non-solid**
C11	**PA02**	**Varistors, thermistors and sensors**
C12	**PA03**	**Potentiometers, encoders and switches**
C7	**PA04**	**Variable capacitors**
C22	**PA05**	**Film capacitors**
C15	**PA06**	**Ceramic capacitors**
C9	**PA07**	**Piezoelectric quartz devices**
C13	**PA08**	**Fixed resistors**

PROFESSIONAL COMPONENTS

This series of data handbooks comprises:

current code	new code	handbook title
T1	*	**Power tubes for RF heating and communications**
T2a	*	**Transmitting tubes for communications, glass types**
T2b	*	**Transmitting tubes for communications, ceramic types**
T3	**PC01**	**High–power klystrons**
T4	*	**Magnetrons for microwave heating**
T5	**PC02**	**Cathode–ray tubes**
T6	**PC03**	**Geiger–Müller tubes**
T9	**PC04**	**Photo and electron multipliers**
T10	**PC05**	**Plumbicon camera tubes and accessories**
T11	**PC06**	**Microwave diodes and sub–assemblies**
T12	**PC07**	**Vidicon and Newvicon camera tubes and deflection units**
T13	**PC08**	**Image intensifiers and infrared detectors**
T15	**PC09**	**Dry reed switches**
C8	**PC10**	**Variable mains transformers; annular fixed transformers**

* These handbooks will not be reissued.

MATERIALS

This series of data handbooks comprises:

current code	new code	handbook title
C4/C5	**MA01***	**Soft Ferrites**
C16	**MA02**	**Permanent magnet materials**
C19	**MA03**	**Piezoelectric ceramics**

* Handbooks C4 and C5 will be reissued as one handbook having the new code MA01.

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